

1564040  
<https://www.phoenixcontact.com/us/products/1564040>

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, red lilac RAL 4001, shielded, Socket straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: 10 m

as illustrated, however, 2x with straight socket

Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1564040       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 25 pc         |
| Product key                          | AF1CDD        |
| GTIN                                 | 4046356304412 |
| Weight per piece (including packing) | 636.8 g       |
| Weight per piece (excluding packing) | 636.8 g       |
| Country of origin                    | PL            |

# SAC-5P-FS/10,0-920/FS SCO - Bus system cable



1564040

<https://www.phoenixcontact.com/us/products/1564040>

## Technical data

### Product properties

|                      |                         |
|----------------------|-------------------------|
| Product type         | Data cable preassembled |
| 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®            |
|                      | DeviceNet™          |

### Signaling

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

### Electrical properties

|                                |          |
|--------------------------------|----------|
| Insulation resistance          | ≥ 100 MΩ |
| Nominal voltage U <sub>N</sub> | 48 V AC  |
|                                | 60 V DC  |
| Nominal current I <sub>N</sub> | 4 A      |

### 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                |

### Connector

#### Connection 1

|                     |                              |
|---------------------|------------------------------|
| Type                | Socket straight M12 SPEEDCON |
| Number of positions | 5                            |
| Locking type        | SPEEDCON                     |
| Coding type         | A (Standard)                 |

# SAC-5P-FS/10,0-920/FS SCO - Bus system cable



1564040

<https://www.phoenixcontact.com/us/products/1564040>

## Connection 2

|                     |                              |
|---------------------|------------------------------|
| Type                | Socket straight M12 SPEEDCON |
| Number of positions | 5                            |
| Locking type        | SPEEDCON                     |
| Coding type         | A (Standard)                 |

## Cable/line

|              |      |
|--------------|------|
| Cable length | 10 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                                                                                                  |
| 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 %                                                                                                                   |

# SAC-5P-FS/10,0-920/FS SCO - Bus system cable



1564040

<https://www.phoenixcontact.com/us/products/1564040>

|                                               |                                                                                                                                                                                          |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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/s², 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                                            |
|                                 | IP68                                            |
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket)                |
|                                 | -40 °C ... 80 °C (cable, fixed installation)    |
|                                 | -20 °C ... 75 °C (Cable, flexible installation) |

# SAC-5P-FS/10,0-920/FS SCO - Bus system cable

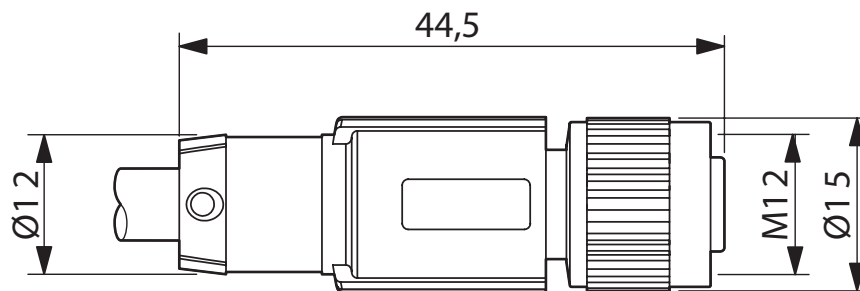


1564040

<https://www.phoenixcontact.com/us/products/1564040>

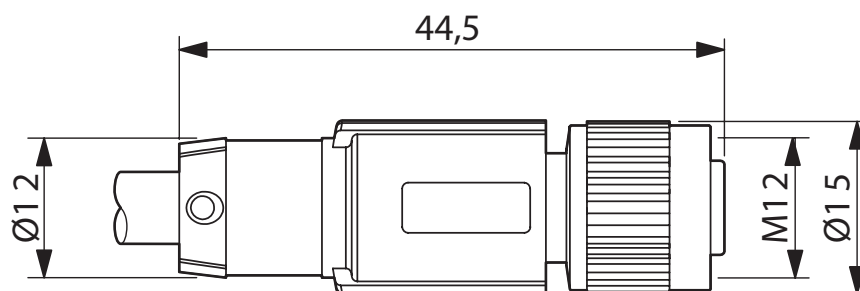
## Drawings

Dimensional drawing



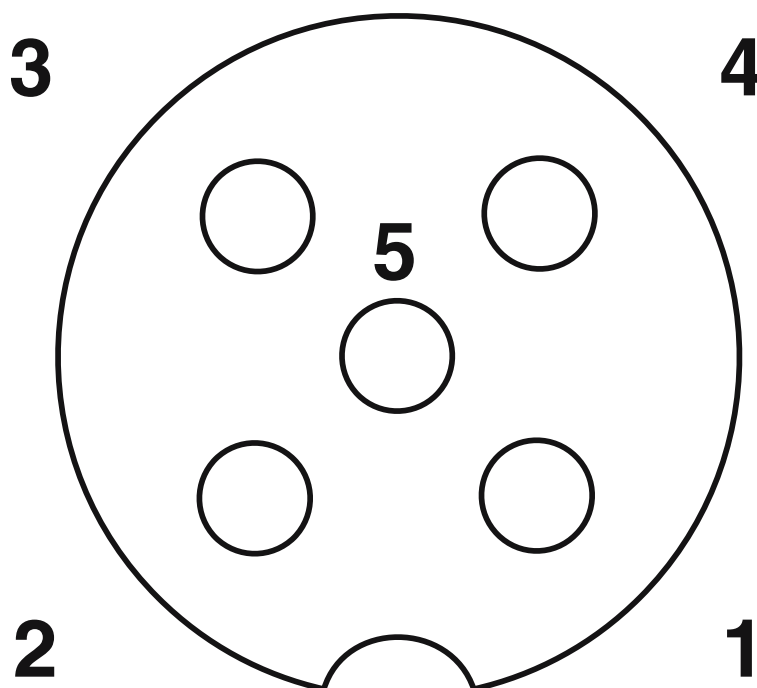
M12 x 1 socket, straight, shielded

Dimensional drawing



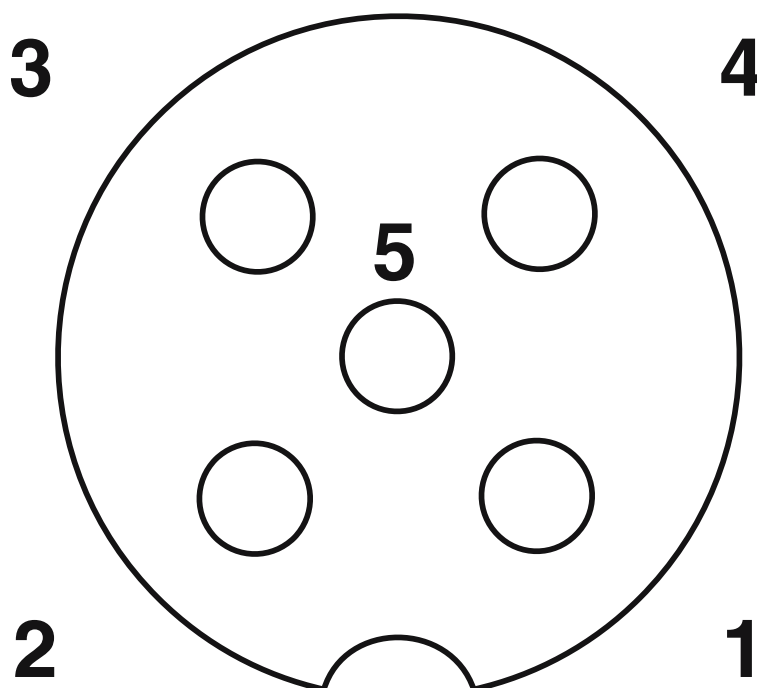
M12 x 1 socket, straight, shielded

Schematic diagram



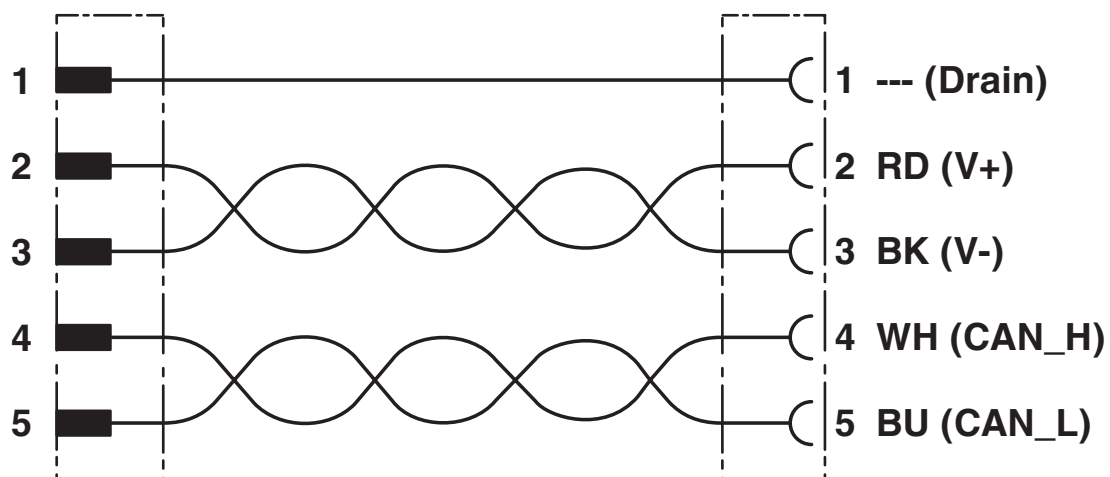
Pin assignment M12 socket, 5-pos., A-coded, socket side view

Schematic diagram



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

Circuit diagram



# SAC-5P-FS/10,0-920/FS SCO - Bus system cable



1564040

<https://www.phoenixcontact.com/us/products/1564040>

## Classifications

### ECLASS

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

# SAC-5P-FS/10,0-920/FS SCO - Bus system cable



1564040

<https://www.phoenixcontact.com/us/products/1564040>

## Environmental product compliance

### EU RoHS

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

### China RoHS

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-50                                                                                                                                                                                                                           |
|                                        | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

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

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](mailto:info@phoenixcon.com)