

SAC-2P- 5,0-910/FSB SCO - Bus system cable



1518070

<https://www.phoenixcontact.com/us/products/1518070>

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, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, red lilac RAL 4001, shielded, free cable end, on Socket straight M12 SPEEDCON, coding: B, cable length: 5 m

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1518070 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF04 |
| Product key | AF1CKC |
| GTIN | 4017918968199 |
| Weight per piece (including packing) | 317 g |
| Weight per piece (excluding packing) | 325.1 g |
| Customs tariff number | 85444290 |
| Country of origin | PL |

SAC-2P- 5,0-910/FSB SCO - Bus system cable



1518070

<https://www.phoenixcontact.com/us/products/1518070>

Technical data

Product properties

| | |
|----------------------|-------------------------|
| Product type | Data cable preassembled |
| Application | Standard |
| Sensor type | PROFIBUS |
| Number of positions | 2 |
| No. of cable outlets | 1 |
| Shielded | yes |
| Coding | B |

Insulation characteristics

| | |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution | 3 |

Interfaces

| | |
|----------------------|--------------------------------|
| Bus system | PROFIBUS |
| Signal type/category | PROFIBUS, 12 Mbps (max. 100 m) |

Signaling

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

Electrical properties

| | |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage U_N | 48 V AC |
| | 60 V DC |
| Nominal current I_N | 4 A |
| Transmission medium | Copper |
| Transmission speed | 12 Mbps (max. 100 m) |

Material specifications

| | |
|-------------------------------|---|
| 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) | 2 (Socket) GN (A cable) |
| | 4 (Socket) RD (B cable) |

SAC-2P- 5,0-910/FSB SCO - Bus system cable



1518070

<https://www.phoenixcontact.com/us/products/1518070>

Connector

Connection 1

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


Connection 2

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

Cable/line

| | |
|--------------|-----|
| Cable length | 5 m |
|--------------|-----|

PROFIBUS [910]

| | |
|---|---|
| Dimensional drawing |  |
| UL AWM Style | 21198 (80°C/300 V) |
| Number of positions | 2 |
| Shielded | yes |
| Cable type | PROFIBUS [910] |
| Conductor structure | 1x2xAWG24/19 |
| AWG signal line | 24 |
| Conductor cross-section | 2x 0.25 mm ² (Signal line) |
| Wire diameter incl. insulation | 2.55 mm ±0.05 mm |
| External cable diameter | 7.70 mm ±0.02 mm |
| Outer sheath, material | PUR |
| External sheath, color | red lilac RAL 4001 |
| Conductor material | Tin-plated Cu litz wires |
| Single wire, color | red, green |
| Overall twist | 2 cores with 2 fillers to the core |
| Optical shield covering | 80 % |
| Insulation resistance | ≥ 5 GΩ*km |
| Wave impedance | 150 Ω ±10 % (3 MHz ... 20 MHz) |
| Nominal voltage, cable | ≤ 125 V |
| 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: 4000000, Bending radius: 65 mm, Bending radius: 15 x D, Traversing path: 4.5 m, Traversing rate: 3 m/s, Acceleration: 3 m/s ² |

SAC-2P- 5,0-910/FSB SCO - Bus system cable



1518070

<https://www.phoenixcontact.com/us/products/1518070>

| | |
|---------------------------------|--|
| Shield attenuation | ≤ 4.9 dB (at 16 MHz) |
| | ≤ 4.9 dB (at 4 MHz) |
| | ≤ 0.5 dB (at 38.4 kHz) |
| | ≤ 0.3 dB (at 9.6 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 |
| Resistance to oil | in accordance with DIN EN 60811-404 |
| 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) |

SAC-2P- 5,0-910/FSB SCO - Bus system cable

1518070

<https://www.phoenixcontact.com/us/products/1518070>

Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

Schematic diagram



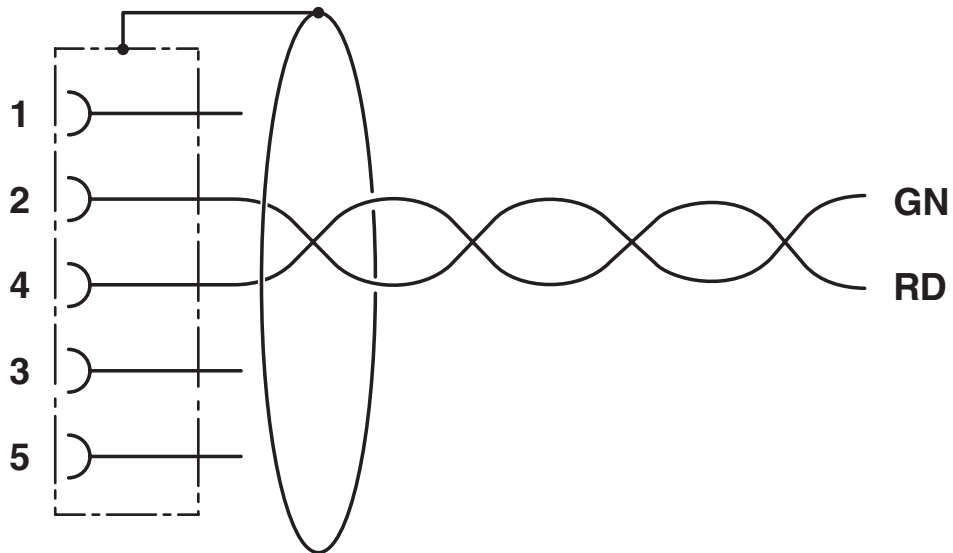
Pin assignment M12 socket, 5-pos., B-coded, female side

SAC-2P- 5,0-910/FSB SCO - Bus system cable

1518070

<https://www.phoenixcontact.com/us/products/1518070>

Circuit diagram



Contact assignment of the M12 socket

SAC-2P- 5,0-910/FSB SCO - Bus system cable



1518070

<https://www.phoenixcontact.com/us/products/1518070>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1518070>

|  UL Listed Approval ID: FILE E 221474 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 300 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 | | | | |
| | 300 V | 4 A | - | - |

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

SAC-2P- 5,0-910/FSB SCO - Bus system cable



1518070

<https://www.phoenixcontact.com/us/products/1518070>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

SAC-2P- 5,0-910/FSB SCO - Bus system cable



1518070

<https://www.phoenixcontact.com/us/products/1518070>

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 | 3.038 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