

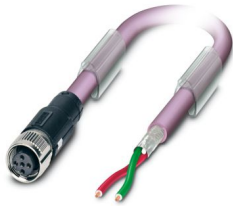
# SAC-2P-15,0-910/FSB SCO - Bus system cable



1518096

<https://www.phoenixcontact.com/us/products/1518096>

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: 15 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1518096       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF04          |
| Product key                          | AF1CKC        |
| GTIN                                 | 4017918968212 |
| Weight per piece (including packing) | 919.9 g       |
| Weight per piece (excluding packing) | 919.9 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

# SAC-2P-15,0-910/FSB SCO - Bus system cable



1518096

<https://www.phoenixcontact.com/us/products/1518096>

## 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-15,0-910/FSB SCO - Bus system cable



1518096

<https://www.phoenixcontact.com/us/products/1518096>

## Connector

### Connection 1

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

### Connection 2

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

## Cable/line

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

### PROFIBUS [910]

|                                 |                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------|
| Dimensional drawing             |  |
| Cable weight                    | 90 kg/km                                                                            |
| UL AWM Style                    | 21198 (80°C/300 V)                                                                  |
| Number of positions             | 2                                                                                   |
| Shielded                        | yes                                                                                 |
| Cable type                      | PROFIBUS [910]                                                                      |
| Conductor structure             | 1x2xAWG24/19                                                                        |
| Conductor structure signal line | 19x 0.13 mm                                                                         |
| AWG signal line                 | 24                                                                                  |
| Conductor cross section         | 2x 0.25 mm² (Signal line)                                                           |
| Wire diameter incl. insulation  | 2.55 mm ±0.07 mm                                                                    |
| External cable diameter         | 7.80 mm ±0.2 mm                                                                     |
| Outer sheath, material          | PUR                                                                                 |
| External sheath, color          | red lilac RAL 4001                                                                  |
| Conductor material              | Tin-plated Cu litz wires                                                            |
| Material, filler                | PP                                                                                  |
| Material wire insulation        | Foam-Skin PP                                                                        |
| Single wire, color              | red, green                                                                          |
| Overall twist                   | 2 cores with 2 fillers to the core                                                  |
| Optical shield covering         | 85 %                                                                                |
| Max. conductor resistance       | ≤ 78.6 Ω/km                                                                         |
| Insulation resistance           | ≥ 5 GΩ*km                                                                           |
| Wave impedance                  | 150 Ω ±10 % (3 MHz ... 20 MHz)                                                      |
| Cable capacity                  | nom. 30 pF/m                                                                        |
| Nominal voltage, cable          | 300 V                                                                               |

# SAC-2P-15,0-910/FSB SCO - Bus system cable



1518096

<https://www.phoenixcontact.com/us/products/1518096>

|                                               |                                                                                                                                                                  |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test voltage Core/Core                        | 1500 V (50 Hz, 1 min.)                                                                                                                                           |
| Test voltage Core/Shield                      | 1500.00 V (50 Hz, 1 min.)                                                                                                                                        |
| Smallest bending radius, fixed installation   | 40 mm                                                                                                                                                            |
| Smallest bending radius, movable installation | 65 mm                                                                                                                                                            |
| Dynamic load capacity (bending)               | Max. bending cycles: 4000000, Bending radius: 65 mm, Traversing path: 4.5 m, Traversing rate: 3 m/s, Acceleration: 3 m/s², Ambient temperature: -20 °C ... 60 °C |
|                                               | Max. bending cycles: 5000000, Bending radius: 80 mm, Traversing path: 4.5 m, Traversing rate: 3 m/s, Acceleration: 3 m/s², Ambient temperature: -20 °C ... 60 °C |
| Shield attenuation                            | ≤ 0.049 dB/m (at 16 MHz)                                                                                                                                         |
| 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                                                                                                                                                    |
| 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)                                                                                                                |

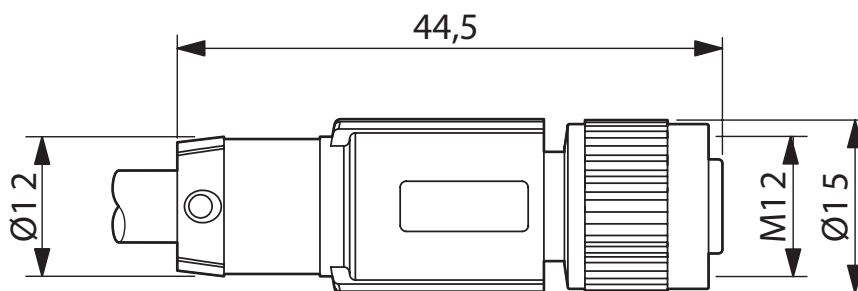
## Environmental and real-life conditions

### Ambient conditions

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

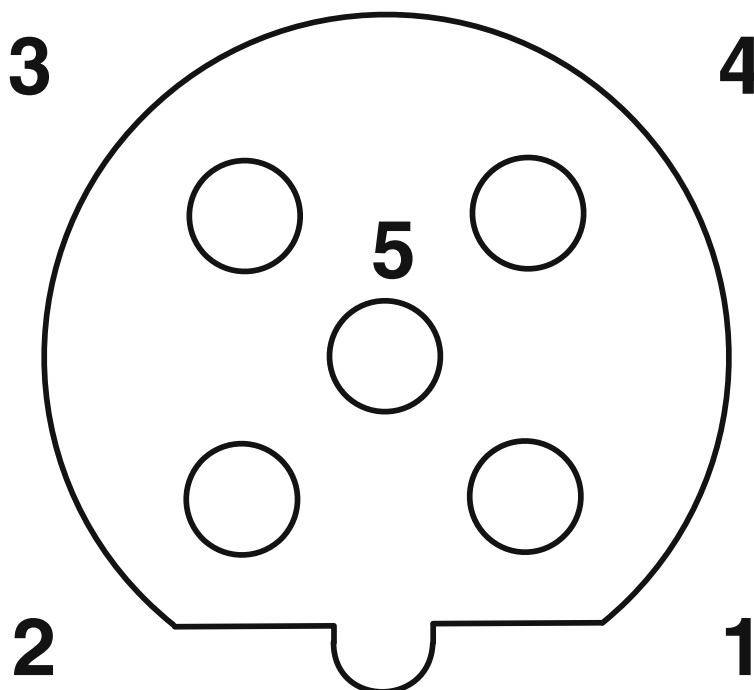
## Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

Schematic diagram



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

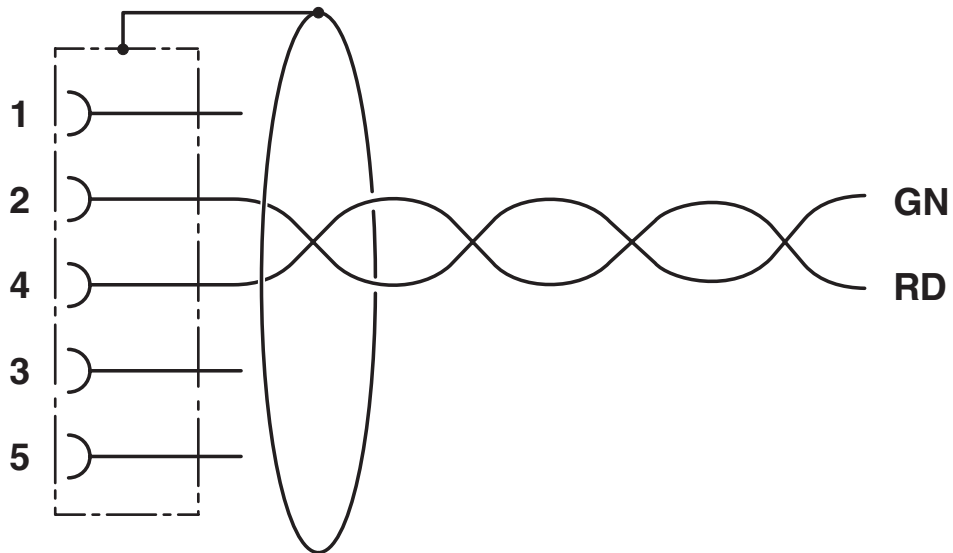
# SAC-2P-15,0-910/FSB SCO - Bus system cable



1518096

<https://www.phoenixcontact.com/us/products/1518096>

Circuit diagram



Contact assignment of the M12 socket

# SAC-2P-15,0-910/FSB SCO - Bus system cable



1518096

<https://www.phoenixcontact.com/us/products/1518096>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1518096>

|                                                                                                                                  |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <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                                                                                                                            |                       |                       |                   |                             |
|                                                                                                                                  | 300 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                                                                                                                             |                       |                       |                   |                             |
|                                                                                                                                   | 300 V                 | 4 A                   | -                 | -                           |

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

# SAC-2P-15,0-910/FSB SCO - Bus system cable



1518096

<https://www.phoenixcontact.com/us/products/1518096>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

# SAC-2P-15,0-910/FSB SCO - Bus system cable



1518096

<https://www.phoenixcontact.com/us/products/1518096>

## 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% |
|-------------------------------------|----------------------------|

### EF3.0 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 8.688 kg CO2e |
|---------|---------------|

Phoenix Contact 2025 © - 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)