

# SAC-2P-M12MS/15,0-915/M12FS - Bus system cable



1404625

<https://www.phoenixcontact.com/in/products/1404625>

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, 2-position, PUR/PVC, blue, shielded, Plug straight M12, coding: B, on Socket straight M12, coding: B, cable length: 15 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1404625                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 25 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF1                            |
| Product key                          | AF1CJC                         |
| GTIN                                 | 4046356704731                  |
| Weight per piece (including packing) | 1,155.1 g                      |
| Weight per piece (excluding packing) | 1,155.1 g                      |
| Customs tariff number                | 85444290                       |
| Country of origin                    | PL                             |

# SAC-2P-M12MS/15,0-915/M12FS - Bus system cable



1404625

<https://www.phoenixcontact.com/in/products/1404625>

## Technical data

### Product properties

|                      |                         |
|----------------------|-------------------------|
| Product type         | Data cable preassembled |
| Application          | Bus system              |
| 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 |

### 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                     |

### Mechanical properties

#### Mechanical data

|                             |            |
|-----------------------------|------------|
| Insertion/withdrawal cycles | $\geq 100$ |
|-----------------------------|------------|

### Material specifications

|                                        |                                             |
|----------------------------------------|---------------------------------------------|
| Flammability rating according to UL 94 | V0                                          |
| Seal material                          | NBR                                         |
| Material of grip body                  | TPU, hardly inflammable, self-extinguishing |
| Contact material                       | CuSn                                        |
| Contact surface material               | Ni/Au                                       |
| Contact carrier material               | PA 6.6                                      |
| Material for screw connection          | Zinc die-cast, nickel-plated                |

### Connection data

# SAC-2P-M12MS/15,0-915/M12FS - Bus system cable



1404625

<https://www.phoenixcontact.com/in/products/1404625>

## Pin assignment

|                                                           |                                      |
|-----------------------------------------------------------|--------------------------------------|
| Contact   Color (signal designation)   Contact (optional) | 2 (Plug)   GN (A cable)   2 (Socket) |
|                                                           | 4 (Plug)   RD (B cable)   4 (Socket) |

## Connector

### Connection 1

|                     |                   |
|---------------------|-------------------|
| Type                | Plug straight M12 |
| Number of positions | 2                 |
| Coding type         | B (inverse)       |

### Connection 2

|                     |                     |
|---------------------|---------------------|
| Type                | Socket straight M12 |
| Number of positions | 2                   |
| Coding type         | B                   |

## Cable/line

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

### PROFIBUS [915]

|                                               |                                                      |
|-----------------------------------------------|------------------------------------------------------|
| Cable weight                                  | 74 kg/km                                             |
| Number of positions                           | 2                                                    |
| Shielded                                      | yes                                                  |
| Cable type                                    | PROFIBUS [915]                                       |
| Conductor structure                           | 1x2xAWG24/19                                         |
| Conductor structure signal line               | 19x 0.14 mm                                          |
| AWG signal line                               | 24                                                   |
| Conductor cross section                       | 2x 0.25 mm <sup>2</sup>                              |
| Wire diameter incl. insulation                | 2.56 mm                                              |
| External cable diameter                       | 8.00 mm ±0.4 mm                                      |
| Outer sheath, material                        | PUR                                                  |
| External sheath, color                        | blue                                                 |
| Conductor material                            | Bare Cu litz wires                                   |
| Material wire insulation                      | Foamed PE                                            |
| Single wire, color                            | red, green                                           |
| Thickness, outer sheath                       | approx. 0.80 mm                                      |
| Overall twist                                 | 2 wires, twisted                                     |
| Optical shield covering                       | 70 %                                                 |
| Insulation resistance                         | ≥ 16 GΩ*km                                           |
| Working capacitance                           | 28 nF (at 1 kHz)                                     |
| Nominal voltage, cable                        | ≤ 100 V                                              |
| Test voltage Core/Core                        | 3600 V DC                                            |
| Minimum bending radius, flexible installation | 5 x D                                                |
| Smallest bending radius, movable installation | 40 mm                                                |
| Dynamic load capacity (bending)               | Max. bending cycles: 3000000, Bending radius: 60 mm, |

# SAC-2P-M12MS/15,0-915/M12FS - Bus system cable



1404625

<https://www.phoenixcontact.com/in/products/1404625>

|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
|                                 | Acceleration: 4 m/s <sup>2</sup>                |
| Tensile strength                | ≤ 100 N                                         |
| Flame resistance                | according to IEC 60332-1                        |
| Resistance to oil               | Resistant to mineral oils and grease            |
| Ambient temperature (operation) | -40 °C ... 80 °C (Cable, flexible installation) |

## Environmental and real-life conditions

### Ambient conditions

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

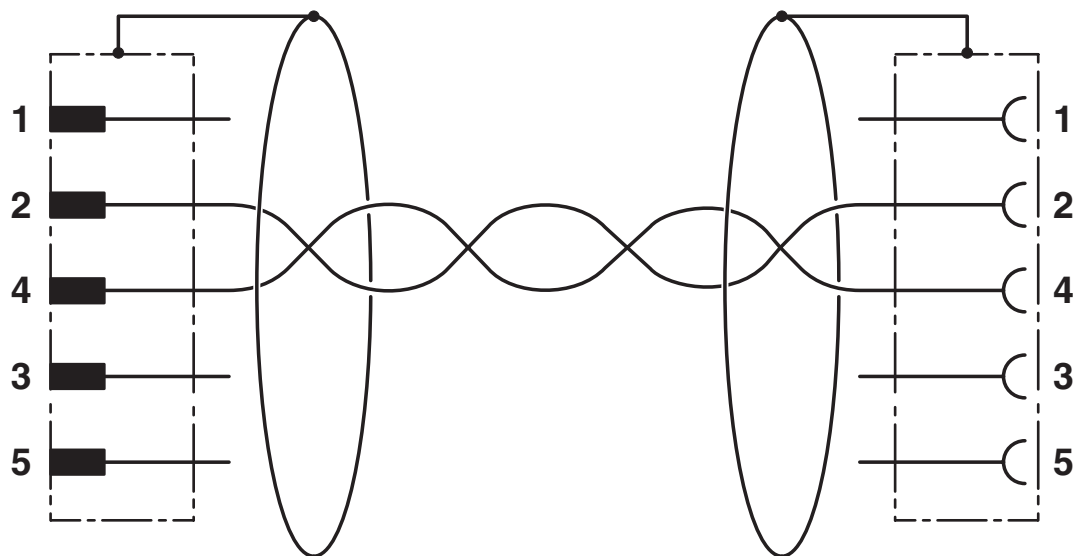
## Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Circuit diagram



Schematic diagram



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

1404625

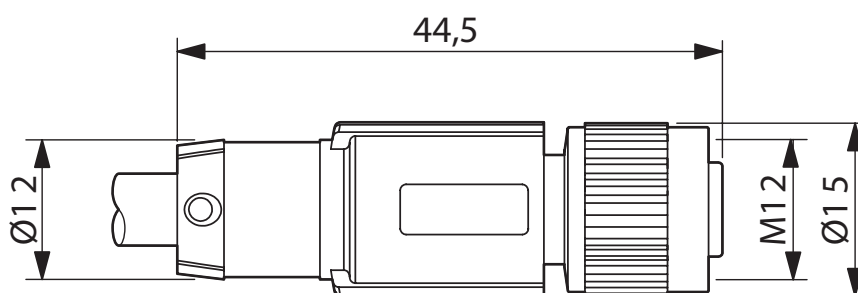
<https://www.phoenixcontact.com/in/products/1404625>

Schematic diagram



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

Dimensional drawing



M12 x 1 socket, straight, shielded

# SAC-2P-M12MS/15,0-915/M12FS - Bus system cable



1404625

<https://www.phoenixcontact.com/in/products/1404625>

## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1404625>



**EAC-RoHS**

Approval ID: RU D-DE.HB35.B.00387

# SAC-2P-M12MS/15,0-915/M12FS - Bus system cable



1404625

<https://www.phoenixcontact.com/in/products/1404625>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27060307 |
| ECLASS-12.0 | 27060307 |
| ECLASS-13.0 | 27060307 |

### ETIM

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

### UNSPSC

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

# SAC-2P-M12MS/15,0-915/M12FS - Bus system cable



1404625

<https://www.phoenixcontact.com/in/products/1404625>

## Environmental product compliance

### 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 | 13.055 kg CO2e |
|---------|----------------|

Phoenix Contact 2025 © - all rights reserved  
<https://www.phoenixcontact.com>

PHOENIX CONTACT (I) Pvt. Ltd.  
A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420  
[info@phoenixcontact.co.in](mailto:info@phoenixcontact.co.in)