

# SAC-2P-M12MSB/ 4,0-915/M12FSB - Bus system cable



1404869

<https://www.phoenixcontact.com/us/products/1404869>

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Bus system cable, PROFIBUS, 2-position, PUR/PVC, blue, shielded, Plug straight M12, coding: B, on Socket straight M12, coding: B, cable length: 4 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1404869                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 25 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF04                           |
| Product key                          | AF1CJC                         |
| GTIN                                 | 4046356726009                  |
| Weight per piece (including packing) | 316 g                          |
| Weight per piece (excluding packing) | 316 g                          |
| Customs tariff number                | 85444290                       |
| Country of origin                    | PL                             |

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## 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 | ≥ 100 MΩ |
| 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 | ≥ 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

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## Connection 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 | 4 m |
|--------------|-----|

## PROFIBUS [915]

|                                 |                                                                                      |
|---------------------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing             |  |
| 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                                                                     |

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|                                               |                                                                                       |
|-----------------------------------------------|---------------------------------------------------------------------------------------|
| Optical shield covering                       | 70 %                                                                                  |
| Insulation resistance                         | $\geq 16 \text{ G}\Omega \cdot \text{km}$                                             |
| Working capacitance                           | 28 nF (at 1 kHz)                                                                      |
| Nominal voltage, cable                        | $\leq 100 \text{ V}$                                                                  |
| 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, Acceleration: 4 m/s <sup>2</sup> |
| Tensile strength                              | $\leq 100 \text{ N}$                                                                  |
| 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)                                       |

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## Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight, shielded

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Schematic diagram



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

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Schematic diagram



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

Circuit diagram



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## Approvals

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**EAC-RoHS**

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

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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## 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 | 3.821 kg CO2e |
|---------|---------------|

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