

# SAC-2P- 5,0-915/M12FSB - Bus system cable



1525490

<https://www.phoenixcontact.com/us/products/1525490>

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Bus system cable, PROFIBUS, 2-position, PUR/PVC, blue, shielded, free cable end, on Socket straight M12, coding: B, cable length: 5 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1525490                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF04                           |
| Product key                          | AF1CKC                         |
| GTIN                                 | 4017918950156                  |
| Weight per piece (including packing) | 394 g                          |
| Weight per piece (excluding packing) | 390.7 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 | $\geq 100 \text{ M}\Omega$ |
| 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               | TPU GF                                      |
| Material for screw connection          | Zinc die-cast, nickel-plated                |

### Connection data

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## Connection assignment

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

## Connector

### Connection 1

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

### Connection 2

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

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 5 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, 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                                                  |

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|                                 |                                                 |
|---------------------------------|-------------------------------------------------|
| 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) (male connector/female connector) | -25 °C ... 90 °C (Plug / socket) |

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## Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

Schematic diagram



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

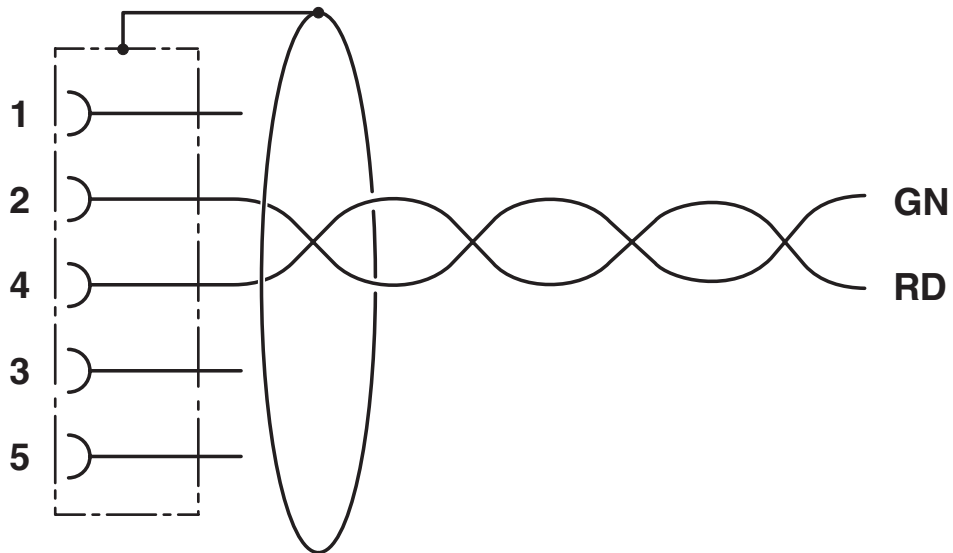
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Circuit diagram



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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 9.0 | 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% |
|-------------------------------------|----------------------------|

### EF3.0 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 4.461 kg CO2e |
|---------|---------------|

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