

1525490  
<https://www.phoenixcontact.com/gb/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                            | BF1CKC                         |
| Product key                          | BF1CKC                         |
| 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                             |

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



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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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## Pin 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                                           |
| Max. bending cycles                           | 3000000                                         |
| 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) |

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## Environmental and real-life conditions

### Ambient conditions

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

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