

SAC-2P-M12MSB/ 5,0-915/M12FSB - Bus system cable



1400947

<https://www.phoenixcontact.com/us/products/1400947>

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Bus system cable, PROFIBUS, 2-position, PUR/PVC, blue, shielded (Aluminum-coated foil, tinned copper braided shield), Plug straight M12, coding: B, on Socket straight M12, coding: B, cable length: 5 m

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1400947 |
| Packing unit | 1 pc |
| Minimum order quantity | 25 pc |
| Note | Made to order (non-returnable) |
| Product key | BF1CJC |
| GTIN | 4046356515474 |
| Weight per piece (including packing) | 412.5 g |
| Weight per piece (excluding packing) | 404.033 g |
| Country of origin | PL |

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Technical data

Product properties

| | |
|----------------------|-------------------------|
| Product type | Data cable preassembled |
| 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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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 | 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 ² |
| 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 |

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| | |
|---------------------------------|---|
| 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) |

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Classifications

ECLASS

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

ETIM

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

UNSPSC

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

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Environmental product compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com