

SAC-2P- 5,0-910/M12FSB - Bus system cable



1507308

<https://www.phoenixcontact.com/us/products/1507308>

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Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, red lilac RAL 4001, shielded (Plastic-coated aluminum foil, tinned copper braided shield), free cable end, on Socket straight M12, coding: B, cable length: 5 m

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 1507308 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF04 |
| Product key | BF1CKC |
| Catalog page | Page 429 (C-2-2019) |
| GTIN | 4017918900137 |
| Weight per piece (including packing) | 316.6 g |
| Weight per piece (excluding packing) | 303.5 g |
| Customs tariff number | 85444290 |
| Country of origin | PL |

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Technical data

Notes

| | |
|---------|--|
| General | Further products with variable cable lengths can be found in the accessories section |
|---------|--|

Product properties

| | |
|----------------------|-------------------------|
| Product type | Data cable preassembled |
| Sensor type | PROFIBUS |
| Number of positions | 2 |
| Application | Standard |
| 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, 12 Mbps (max. 100 m) |

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

| | |
|--------------------------|---|
| 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 |

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| | |
|-------------------------------|------------------------------|
| Material for screw connection | Zinc die-cast, nickel-plated |
|-------------------------------|------------------------------|

Connection data

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 |
|------|----------------|

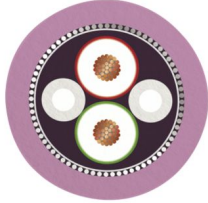
Connection 2

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

Cable/line

| | |
|--------------|-----|
| Cable length | 5 m |
|--------------|-----|

PROFIBUS [910]

| | |
|---------------------------------|--|
| Dimensional drawing |  |
| Cable weight | 90 kg/km |
| UL AWM Style | 21198 (80°C/300 V) |
| Number of positions | 2 |
| Shielded | yes |
| Cable type | PROFIBUS [910] |
| Conductor structure | 1x2xAWG24/19 |
| Conductor structure signal line | 19x 0.13 mm |
| AWG signal line | 24 |
| Conductor cross section | 2x 0.25 mm ² (Signal line) |
| Wire diameter incl. insulation | 2.55 mm ±0.07 mm |
| External cable diameter | 7.80 mm ±0.2 mm |
| Outer sheath, material | PUR |
| External sheath, color | red lilac RAL 4001 |
| Conductor material | Tin-plated Cu litz wires |
| Material, filler | PP |
| Material wire insulation | Foam-Skin PP |

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| | |
|---|---|
| Single wire, color | red, green |
| Overall twist | 2 cores with 2 fillers to the core |
| Optical shield covering | 85 % |
| Max. conductor resistance | ≤ 78.6 Ω/km |
| Insulation resistance | ≥ 5 GΩ*km |
| Wave impedance | 150 Ω ±10 % (3 MHz ... 20 MHz) |
| Cable capacity | nom. 30 pF/m |
| Nominal voltage, cable | 300 V |
| Test voltage Core/Core | 1500 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 1500.00 V (50 Hz, 1 min.) |
| Smallest bending radius, fixed installation | 40 mm |
| Smallest bending radius, movable installation | 65 mm |
| Max. bending cycles | 4000000 5000000 |
| Shield attenuation | ≤ 0.049 dB/m (at 16 MHz) |
| Halogen-free | in accordance with DIN VDE 0472 part 815 according to IEC 60754-1 |
| Flame resistance | UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1) UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2) IEC 60332-1-2 |
| Other resistance | Low adhesion |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) -30 °C ... 70 °C (Cable, flexible installation) -20 °C ... 60 °C (for installation) -20 °C ... 60 °C (cable, drag chain applications) |

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