

SAC-4P-M 8MS/ 5,0-950 - Bus system cable



1543252

<https://www.phoenixcontact.com/us/products/1543252>

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Bus system cable, INTERBUS, 4-position, PUR halogen-free, black RAL 9005, shielded, Plug straight M8, coding: A, on free cable end, cable length: 5 m

Your advantages

- Power cable for actuator voltage
- System cable for supply voltage and bus signal

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1543252 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF02 |
| Product key | AF1BJB |
| GTIN | 4046356097413 |
| Weight per piece (including packing) | 208.8 g |
| Weight per piece (excluding packing) | 217 g |
| Customs tariff number | 85444290 |
| Country of origin | PL |

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Technical data

Product properties

| | |
|----------------------|-------------------------|
| Product type | Data cable preassembled |
| Application | Standard |
| Sensor type | INTERBUS |
| Number of positions | 4 |
| No. of cable outlets | 1 |
| Shielded | yes |
| Coding | A |

Insulation characteristics

| | |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution | 3 |

Interfaces

| | |
|----------------------|----------|
| Bus system | INTERBUS |
| Signal type/category | INTERBUS |

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 |
| Test voltage | 800 V |
| Transmission medium | Copper |

Material specifications

| | |
|--|---|
| Flammability rating according to UL 94 | HB |
| 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

Connection assignment

| | |
|---|---------------------------------------|
| Contact Color (signal designation) Contact (optional) | 1 (Plug) RD (0.34 mm ²) |
| | 3 (Plug) BU (0.34 mm ²) |
| | 2 (Plug) YE (0.14 mm ²) |

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4 (Plug) | GN (0.14 mm²)

Connector

Connection 1

| | |
|---------------------|------------------|
| Type | Plug straight M8 |
| Number of positions | 4 |
| Coding type | A (Standard) |

Connection 2

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

Cable/line

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

INTERBUS [950]

| | |
|-------------------------------------|---|
| Cable weight | 41 kg/km |
| UL AWM Style | 20963 (80°C/30 V) |
| Number of positions | 4 |
| Shielded | yes |
| Cable type | INTERBUS [950] |
| Conductor structure | 2xAWG26/19+2xAWG22/19 |
| Conductor structure signal line | 19x 0.10 mm |
| AWG signal line | 26 |
| Conductor structure, voltage supply | 19x 0.15 mm |
| AWG power supply | 22 |
| Conductor cross-section | 2x 0.14 mm ² (Signal line) 2x 0.34 mm ² (Power supply) 1x 0.38 mm ² (Drain wire) |
| Wire diameter incl. insulation | 0.97 mm (Signal line) 1.25 mm (Power supply) |
| External cable diameter | 5.20 mm ±0.2 mm |
| Outer sheath, material | PUR |
| External sheath, color | black RAL 9005 |
| Conductor material | Tin-plated Cu litz wires |
| Material wire insulation | PP |
| Single wire, color | red-blue, green-yellow |
| Thickness, insulation | 0.24 mm (Conductor insulation, signal line) 0.25 mm (Conductor insulation, voltage supply) |
| Thickness, outer sheath | approx. 0.75 mm |
| Twisted pairs | 2 cores to the pair |
| Type of pair shielding | Aluminum-lined polyester foil |
| Overall twist | 2 pairs around a drain wire in the center to the core |
| Optical shield covering | 85 % |
| Max. conductor resistance | ≤ 150 Ω/km (Signal line) ≤ 58 Ω/km (Power supply) |

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| | |
|---|---|
| Insulation resistance | $\geq 20 \text{ M}\Omega \cdot \text{km}$ |
| Wave impedance | $75 \Omega \pm 10 \Omega$ (Signal line) |
| | $55 \Omega \pm 10 \Omega$ (Power supply) |
| Nominal voltage, cable | $\leq 100 \text{ V}$ |
| Test voltage Core/Core | 1000 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 1000.00 V (50 Hz, 1 min.) |
| Minimum bending radius, fixed installation | 5 x D |
| Minimum bending radius, flexible installation | 7.5 x D |
| Smallest bending radius, fixed installation | 26 mm |
| Smallest bending radius, movable installation | 39 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 1000000, Bending radius: 110 mm, Traversing path: 6 m, Traversing rate: 4 m/s, Acceleration: 4 m/s ² |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -40 °C ... 80 °C (Cable, flexible installation) |

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Drawings

Dimensional drawing



Plug M8 x 1, straight, shielded

Schematic diagram



Pin assignment M8 plug, 4-pos., view male side

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Circuit diagram



Contact assignment of the M8 plug

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Approvals

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EAC-RoHS

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



cULus Listed

Approval ID: E221474

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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 | 2.596 kg CO2e |
|---------|---------------|

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