

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



1543252

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

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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            |

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



1543252

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

## 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 <sup>2</sup> ) |
|   | 3 (Plug)   BU (0.34 mm <sup>2</sup> ) |
|   | 2 (Plug)   YE (0.14 mm <sup>2</sup> ) |

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



1543252

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

4 (Plug) | GN (0.14 mm<sup>2</sup>)

## 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 <sup>2</sup> (Signal line)<br>2x 0.34 mm <sup>2</sup> (Power supply)<br>1x 0.38 mm <sup>2</sup> (Drain wire) |
| Wire diameter incl. insulation      | 0.97 mm (Signal line)<br>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)<br>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)<br>≤ 58 Ω/km (Power supply)  |

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



1543252

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

|   |   |
|---|---|
| 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,<br>Traversing path: 6 m, Traversing rate: 4 m/s, Acceleration: 4 m/s <sup>2</sup> |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)  |
|   | -40 °C ... 80 °C (Cable, flexible installation)   |

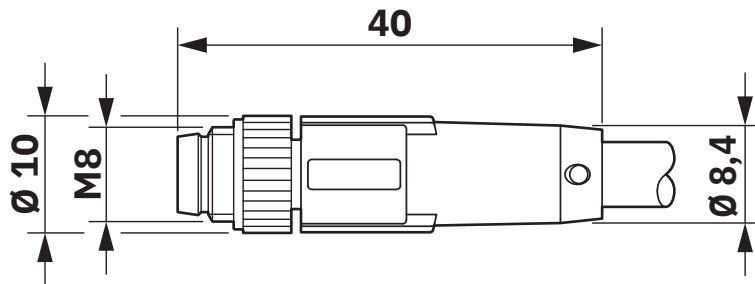
# SAC-4P-M 8MS/ 5,0-950 - Bus system cable

1543252

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

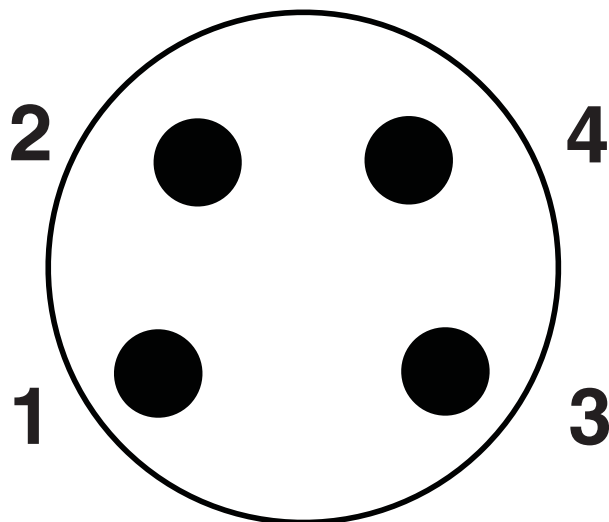
## Drawings

Dimensional drawing



Plug M8 x 1, straight, shielded

Schematic diagram



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

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



1543252

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

Circuit diagram



Contact assignment of the M8 plug

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



1543252

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

## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1543252>



**EAC-RoHS**

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



**cULus Listed**

Approval ID: E221474

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



1543252

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

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27060307 |
| ECLASS-15.0 | 27060307 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001855 |
|-----------|----------|

### UNSPSC

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

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



1543252

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

## 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 |
|---------|---------------|

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

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