

# SAC-4P-M 8MR/ 2,0-950

Order No.: 1550850



Bus system cable, INTERBUS, 4-position, PUR, halogen-free, Black RAL 9005, shielded, Plug, angled M8, on Free conductor end, Cable length: 2 m

## Commercial data

|                          |                                                                                                       |
|--------------------------|-------------------------------------------------------------------------------------------------------|
| EAN                      | <br>4 046356 151375 |
| Note                     | Made-to-order                                                                                         |
| Pack                     | 1                                                                                                     |
| Customs tariff           | 85444290                                                                                              |
| Catalog page information | Page 382 (AX-2009)                                                                                    |

## Product notes

WEEE/RoHS-compliant since:  
2006-07-28



## Technical data

### General data

|                       |                            |
|-----------------------|----------------------------|
| Rated current at 40°C | 4 A                        |
| Rated voltage         | 30 V                       |
| Number of positions   | 4                          |
| Volume resistance     | $\leq 5 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |

|                                            |                                                      |
|--------------------------------------------|------------------------------------------------------|
| Length of cable                            | 2 m                                                  |
| Stripping length of the free conductor end | 50 mm                                                |
| Ambient temperature (operation)            | -25 °C ... 90 °C (Male connector / female connector) |

**General characteristics**

|                          |                                             |
|--------------------------|---------------------------------------------|
| Coding                   | A - standard                                |
| Surge voltage category   | II                                          |
| Pollution degree         | 3                                           |
| Degree of protection     | IP65/IP67/IP69K                             |
| Contact material         | CuSn                                        |
| Contact surface material | Ni/Au                                       |
| Contact carrier material | TPU GF                                      |
| Material of grip body    | TPU, hardly inflammable, self-extinguishing |
| Material, knurls         | Zinc die-cast, (nickel-plated)              |
| Status display           | No                                          |
| Test voltage             | 800 V                                       |

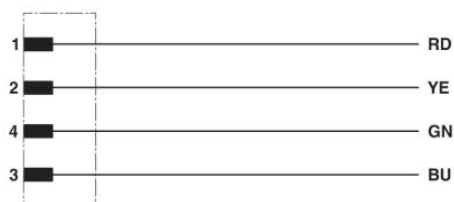
**Conductor data**

|                                     |                                                |
|-------------------------------------|------------------------------------------------|
| Cable type                          | INTERBUS                                       |
| Cable type (abbreviation)           | 950                                            |
| Conductor cross section             | 0.14 mm <sup>2</sup> (signal line)             |
|                                     | 0.34 mm <sup>2</sup> (Power supply)            |
|                                     | 0.38 mm <sup>2</sup> (Drain wire)              |
| AWG signal line                     | 26                                             |
| Conductor structure signal line     | 19x 0.10 mm                                    |
| AWG power supply                    | 22                                             |
| Conductor structure, voltage supply | 19x 0.15 mm                                    |
| Core diameter including insulation  | 0.97 mm (signal line)                          |
|                                     | 1.25 mm (Power supply)                         |
| Thickness, insulation               | 0.24 mm (Conductor insulation, signal line)    |
|                                     | 0.25 mm (Conductor insulation, voltage supply) |
|                                     | Approx. 0.75 mm (Outer cable sheath)           |
| External cable diameter             | 5.20 mm                                        |
| Wire colors                         | red-blue, green-yellow                         |
| External sheath, color              | Black RAL 9005                                 |
| Insulation resistance               | ≥ 20 MΩ*km                                     |

|                                               |                                                       |
|-----------------------------------------------|-------------------------------------------------------|
| Conductor resistance                          | ≤ 155 Ω/km (signal line)                              |
|                                               | ≤ 58 Ω/km (Power supply)                              |
| Nominal voltage, conductor                    | ≤ 100 V                                               |
| Test voltage Core/Core                        | 1000 V                                                |
| Test voltage Core/Shield                      | 1000 V                                                |
| Type of pair shielding                        | Aluminum-lined polyester foil                         |
| Overall twist                                 | 2 pairs around a drain wire in the center to the core |
| Shielding                                     | Tinned copper braided shield                          |
| Optical shield covering                       | 85 %                                                  |
| Outer sheath, material                        | PUR                                                   |
| Material conductor insulation                 | PP                                                    |
| Conductor material                            | Tin-plated Cu litz wires                              |
| Cable weight                                  | 41 kg/km                                              |
| Smallest bending radius, fixed installation   | 26 mm                                                 |
| Smallest bending radius, movable installation | 37 mm                                                 |
| Number of bending cycles                      | 1000000                                               |
| Bending radius                                | 110 mm                                                |
| 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)       |

## Drawings

### Circuit diagram



Contact assignment of the M8 plug

Schematic diagram

---

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

