

Bus system cable - SAC-4P-M 8MR/ 5,0-950/M 8FR - 1551008

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Bus system cable, INTERBUS, INTERBUS, 4-position, PUR halogen-free, Black RAL 9005, shielded, Plug angled M8, on Socket angled M8, Cable length: 5 m

Product Features

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



Key commercial data

| | |
|--------------------------------------|-----------|
| Packing unit | 1 1 |
| Weight per Piece (excluding packing) | 217.3 GRM |
| Custom tariff number | 85444290 |
| Country of origin | Poland |

Technical data

Dimensions

| | |
|-----------------|-----|
| Length of cable | 5 m |
|-----------------|-----|

Ambient conditions

| | |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
| Degree of protection | IP65 |
| | IP67 |

General

| | |
|-----------------------|--------------|
| Rated current at 40°C | 4 A |
| Rated voltage | 30 V |
| Number of positions | 4 |
| Contact resistance | ≤ 5 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |

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Technical data

General

| | |
|------------------------|------------------------|
| Signal type/category | INTERBUS |
| Status display | No |
| Surge voltage category | II |
| Pollution degree | 3 |
| Test voltage | 800 V |
| Torque | 0.2 Nm (M8 connectors) |

Material

| | |
|---|---|
| Inflammability class according to UL 94 | HB |
| 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 |
| Sealing material | NBR |

Pin assignment

| | |
|--|--|
| Position = wire color (signal) = position (optional) | 1 (Plug) = RD (0.34 mm ²) = 1 (Socket) |
| | 3 (Plug) = BU (0.34 mm ²) = 3 (Socket) |
| | 2 (Plug) = YE (0.14 mm ²) = 2 (Socket) |
| | 4 (Plug) = GN (0.14 mm ²) = 4 (Socket) |

Cable

| | |
|-------------------------------------|--|
| Cable type | INTERBUS |
| Cable type (abbreviation) | 950 |
| UL AWM style | 20963 (80°C/30 V) |
| Conductor cross section | 2x 0.14 mm ² (signal line) |
| | 2x 0.34 mm ² (Power supply) |
| | 1x 0.38 mm ² (Drain wire) |
| AWG signal line | 26 |
| AWG power supply | 22 |
| Conductor structure signal line | 19x 0.10 mm |
| 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) |
| Wire colors | red-blue, green-yellow |
| Twisted pairs | 2 cores to the pair |

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Technical data

Cable

| | |
|---|---|
| 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 % |
| External sheath, color | Black RAL 9005 |
| Outer sheath thickness | approx. 0.75 mm |
| External cable diameter D | 5.2 mm ± 0.2 mm |
| 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 ² |
| Cable weight | 41 kg/km |
| Outer sheath, material | PUR |
| Material conductor insulation | PP |
| Conductor material | Tin-plated Cu litz wires |
| Insulation resistance | ≥ 20 MΩ*km |
| Conductor resistance | ≤ 155 Ω/km (signal line) |
| | ≤ 58 Ω/km (Power supply) |
| Nominal voltage, cable | ≤ 100 V |
| Test voltage Core/Core | 1000 V |
| Test voltage Core/Shield | 1000 V |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -40 °C ... 80 °C (cable, flexible installation) |

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27279218 |
| eCl@ss 7.0 | 27279218 |
| eCl@ss 8.0 | 27279218 |

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Classifications

ETIM

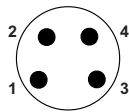
| | |
|----------|----------|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11 | 31251501 |
| UNSPSC 12.01 | 31251501 |
| UNSPSC 13.2 | 31251501 |

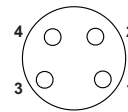
Drawings

Schematic diagram



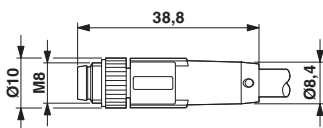
Pin assignment M8 plug, 4-pos., view male side

Schematic diagram



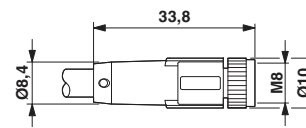
Pin assignment M8 socket, 4-pos., view female side

Dimensioned drawing



Plug M8 x 1, angled, shielded

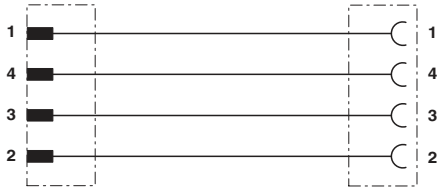
Dimensioned drawing



Socket M8 x 1, angled, shielded

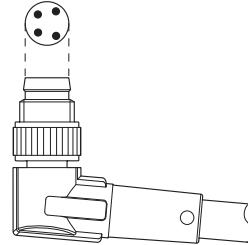
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Circuit diagram



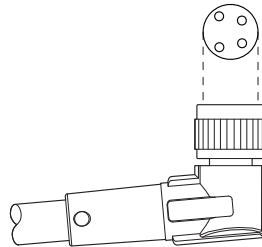
Contact assignment of M8 plugs/sockets

Schematic diagram



Layout of connector pin assignments

Schematic diagram



Layout of connector pin assignments