

# Bus system cable - SAC-4P-M 8MS/ 2,0-950 - 1543249

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

## Product Features

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

## Key commercial data

package_quantity	1
GTIN	4046356097406

## Technical data

### Dimensions

Length of cable	2 m
Stripping length of the free conductor end	50 mm

### Ambient conditions

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

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## Technical data

### Material

<b>Inflammability class according to UL 94</b>	HB
<b>Contact material</b>	CuSn
<b>Contact surface material</b>	Ni/Au
<b>Contact carrier material</b>	TPU GF
<b>Material of grip body</b>	TPU, hardly inflammable, self-extinguishing
<b>Material, knurls</b>	Zinc die-cast, nickel-plated

### Pin assignment

<b>Position = wire color (signal) = position (optional)</b>	1 (Plug) = RD (0.34 mm <sup>2</sup> )
<b>Position = wire color (signal) = position (optional)</b>	3 (Plug) = BU (0.34 mm <sup>2</sup> )
<b>Position = wire color (signal) = position (optional)</b>	2 (Plug) = YE (0.14 mm <sup>2</sup> )
<b>Position = wire color (signal) = position (optional)</b>	4 (Plug) = GN (0.14 mm <sup>2</sup> )

### Cable

<b>Cable type</b>	INTERBUS
<b>Cable type (abbreviation)</b>	950
<b>UL AWM style</b>	20963 (80°C/30 V)
<b>Conductor cross section</b>	2x 0.14 mm <sup>2</sup> (signal line)
<b>Conductor cross section</b>	2x 0.34 mm <sup>2</sup> (Power supply)
<b>Conductor cross section</b>	1x 0.38 mm <sup>2</sup> (Drain wire)
<b>AWG signal line</b>	26
<b>AWG power supply</b>	22
<b>Conductor structure signal line</b>	19x 0.10 mm
<b>Conductor structure, voltage supply</b>	19x 0.15 mm
<b>Core diameter including insulation</b>	0.97 mm (signal line)
<b>Core diameter including insulation</b>	1.25 mm (Power supply)
<b>Thickness, insulation</b>	0.24 mm (Conductor insulation, signal line)
<b>Thickness, insulation</b>	0.25 mm (Conductor insulation, voltage supply)
<b>Wire colors</b>	red-blue, green-yellow
<b>Twisted pairs</b>	2 cores to the pair
<b>Type of pair shielding</b>	Aluminum-lined polyester foil
<b>Overall twist</b>	2 pairs around a drain wire in the center to the core
<b>Shielding</b>	Tinned copper braided shield
<b>Optical shield covering</b>	85 %
<b>External sheath, color</b>	Black RAL 9005
<b>Outer sheath thickness</b>	approx. 0.75 mm
<b>External cable diameter D</b>	5.2 mm ± 0.2 mm
<b>Smallest bending radius, fixed installation</b>	26 mm
<b>Smallest bending radius, movable installation</b>	37 mm
<b>Number of bending cycles</b>	1000000
<b>Bending radius</b>	110 mm
<b>Traversing path</b>	6 m

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## Technical data

### Cable

Traversing rate	4 m/s
Acceleration	4 m/s <sup>2</sup>
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)
Conductor resistance	≤ 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)
Ambient temperature (operation)	-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

### ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

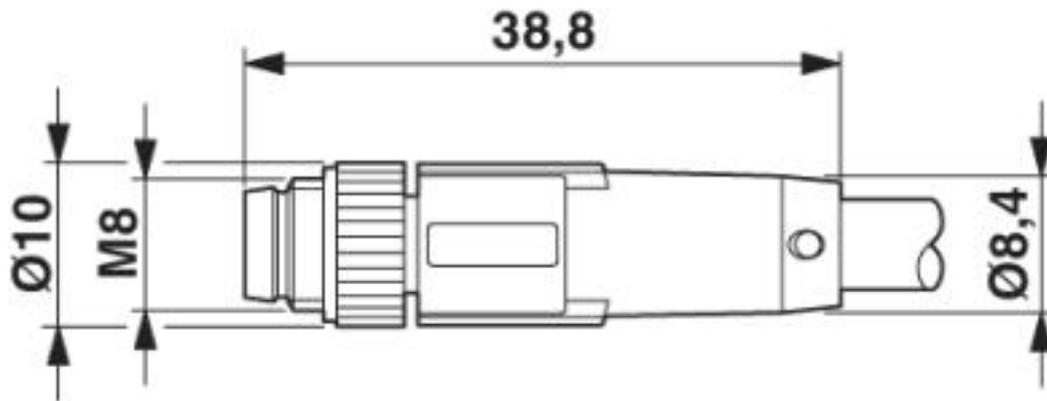
### UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

## Drawings

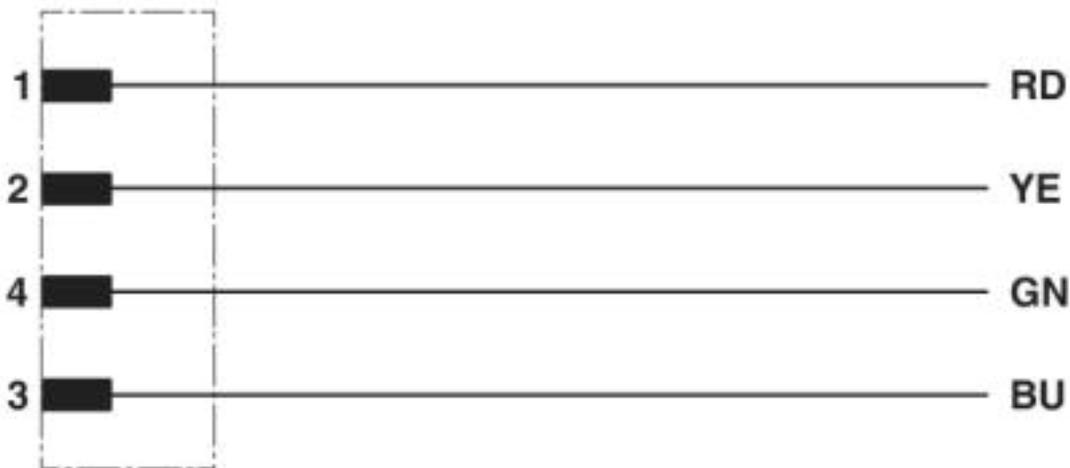
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Dimensioned drawing



Plug M8 x 1, straight, shielded

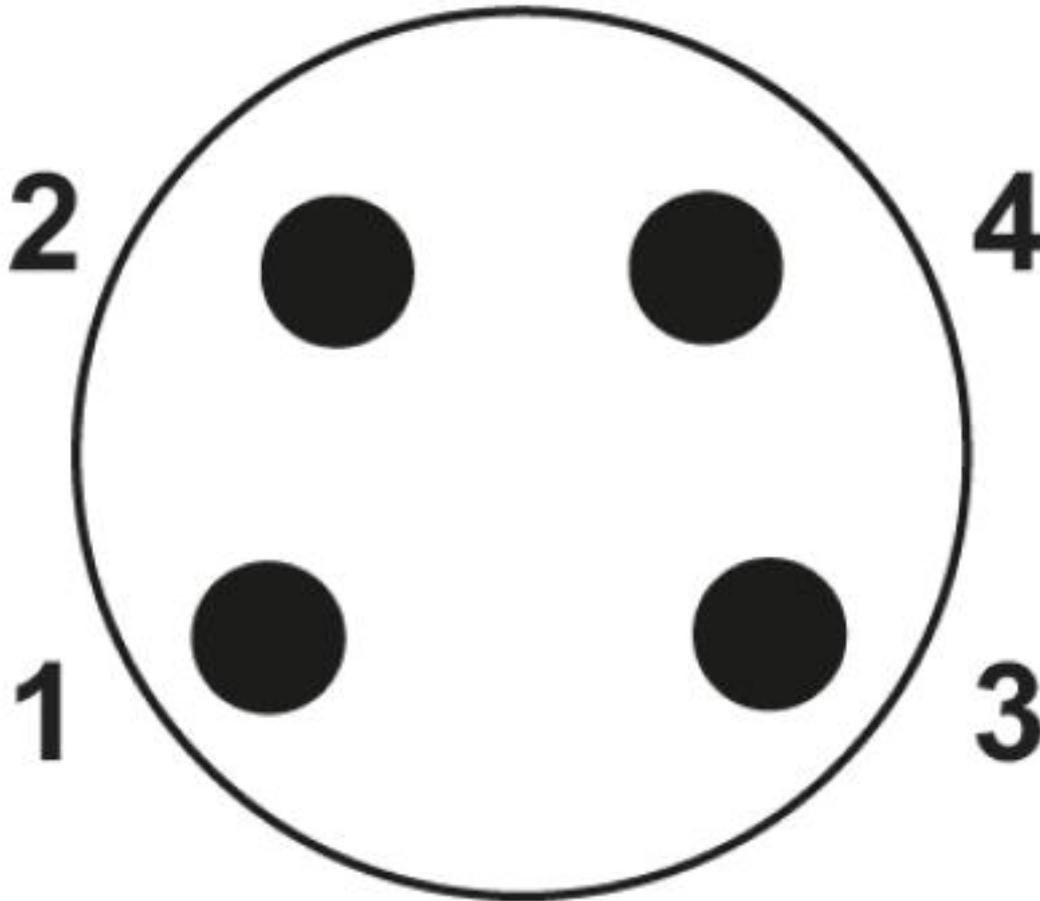
Circuit diagram



Contact assignment of the M8 plug

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Schematic diagram



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

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