

## Bus system cable - SAC-4P- 5,0-950/M 8FS - 1543304

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)




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

### Why buy this product

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

### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 097468
GTIN	4046356097468

### Technical data

#### Dimensions

Length of cable	5 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
	IP67

#### General

Rated current at 40°C	4 A
Rated voltage	48 V AC
	60 V DC
Number of positions	4
Color handle area	black
Insulation resistance	≥ 100 MΩ

# Bus system cable - SAC-4P- 5,0-950/M 8FS - 1543304

## Technical data

### General

Coding	A - standard
Signal type/category	INTERBUS
Status display	No
Overtoltage category	II
Degree of pollution	3
Test voltage	800 V
Torque	0.2 Nm (M8 connectors)

### Material

Flammability rating 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 (Socket)   RD (0.34 mm <sup>2</sup> )
	3 (Socket)   BU (0.34 mm <sup>2</sup> )
	2 (Socket)   YE (0.14 mm <sup>2</sup> )
	4 (Socket)   GN (0.14 mm <sup>2</sup> )

### Standards and Regulations

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

### Cable

Cable type	INTERBUS
Cable type (abbreviation)	950
UL AWM style	20963 (80°C/30 V)
Cable structure	2xAWG26/19+2xAWG22/19
Conductor cross section	2x 0.14 mm <sup>2</sup> (Signal line)
	2x 0.34 mm <sup>2</sup> (Power supply)
	1x 0.38 mm <sup>2</sup> (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

## Bus system cable - SAC-4P- 5,0-950/M 8FS - 1543304

### Technical data

#### Cable

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
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 <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) ≤ 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)

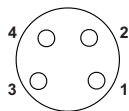
#### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

#### Drawings

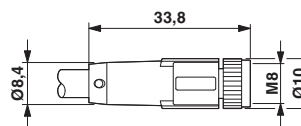
# Bus system cable - SAC-4P- 5,0-950/M 8FS - 1543304

Schematic diagram



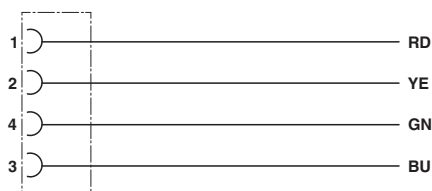
Pin assignment M8 socket, 4-pos., view female side

Dimensional drawing



Socket M8 x 1, straight, shielded

Circuit diagram



Contact assignment of M8 socket

Phoenix Contact 2018 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>