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

1543249

https://www.phoenixcontact.com/gb/products/1543249

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

Your advantages

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

Commercial Data

Item number	1543249
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF1BJA
Product Key	BF1BJB
Catalog Page	Page 200 (C-6-2019)
GTIN	4046356097406
Weight per Piece (including packing)	101.1 g
Weight per Piece (excluding packing)	92.5 g
Customs tariff number	85444290
Country of origin	PL

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Technical Data

Product properties

Product type	Data cable preassembled
Number of positions	4
Application	Standard
No. of cable outlets	1
Shielded	yes
Coding	A - standard

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Interfaces

Bus system	INTERBUS
Signal type/category	INTERBUS

LED signaling

Status display	No
Status display present	No

Electrical properties

Contact resistance	≤ 5 mΩ
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

Color Handle area	black
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
Cable gland material	Zinc die-cast, nickel-plated

Connection data

Pin assignment

Contact | Color (signal designation) | Contact (optional)	1 (Plug) = RD (0.34 mm²)
	3 (Plug) = BU (0.34 mm²)

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	2 (Plug) = YE (0.14 mm²)
	4 (Plug) = GN (0.14 mm²)

Connector

Header 1

Head design	Plug
Head cable outlet	straight
Head thread type	M8

Head 2

Head design	free cable end

Cable / line

Cable length	2 m
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 signal line	19x 0.10 mm
AWG signal line	26
Conductor cross section	2x 0.14 mm² (Signal line)
	2x 0.34 mm² (Power supply)
	1x 0.38 mm² (Drain wire)
Wire diameter incl. insulation	0.97 mm (Signal line)
	1.25 mm (Power supply)
External cable diameter	5.2 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)
	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)
	≤ 58 Ω/km (Power supply)
Insulation resistance	≥ 20 MΩ*km
Wave impedance	75 Ω ±10 Ω (Signal line)
	55 Ω ±10 Ω (Power supply)

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Nominal voltage, cable	≤ 100 V
Test voltage Core/Core	1000 V (50 Hz, 1 min.)
Test voltage Core/Shield	1000 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	7.5 x D
Max. bending cycles	1000000
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-40 °C ... 80 °C (Cable, flexible installation)

Cable structure

Cable type	INTERBUS M8
Signal type/category	INTERBUS
Outer sheath, material	PUR
External sheath, color	black RAL 9005

Ambient conditions

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

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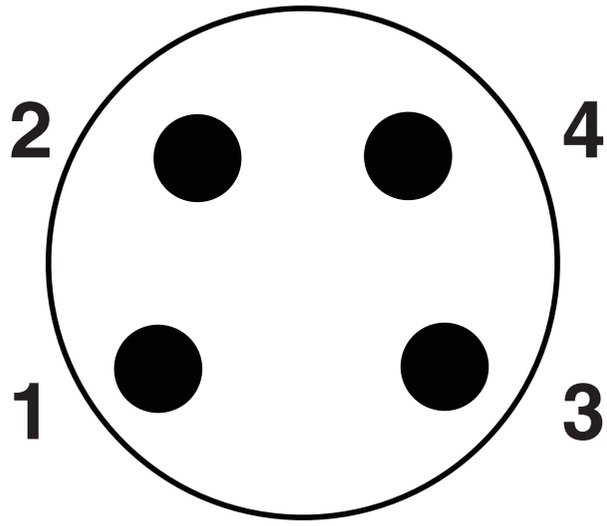
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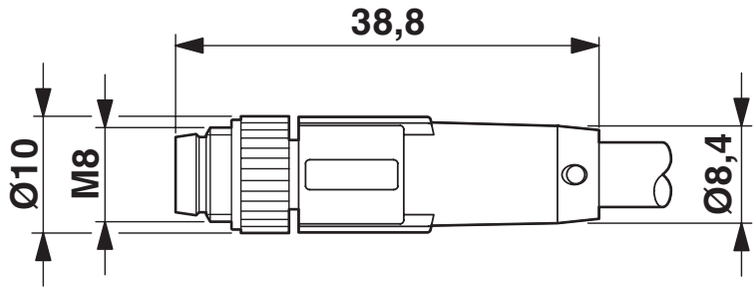
Drawings

Schematic diagram



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

Dimensional drawing



Plug M8 x 1, straight, shielded

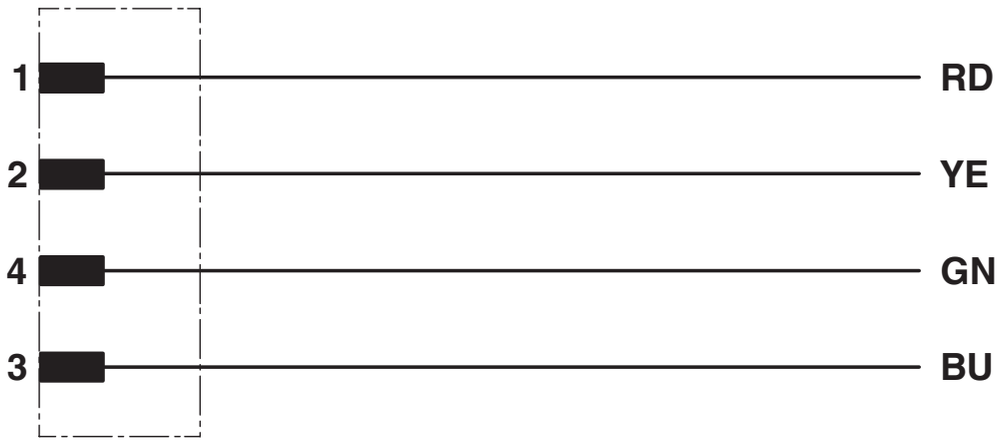
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Circuit diagram



Contact assignment of the M8 plug

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Approvals

EAC
Approval ID: RU C-DE.BL08.B.00286

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

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Classifications

ECLASS

ECLASS-9.0	27060308
ECLASS-10.0.1	27060308
ECLASS-11.0	27060307

ETIM

ETIM 8.0	EC001855

UNSPSC

UNSPSC 21.0	26121600

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Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer’s declaration available under “Downloads”

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