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Bus system cable - SAC-4P-M 8MS/15,0-950

1543278

https://www.phoenixcontact.com/gb/products/1543278

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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: 15 m

Commercial Data

Item number	1543278
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF1BJA
Product Key	BF1BJB
Catalog Page	Page 407 (NTK-2006)
GTIN	4046356097437
Weight per Piece (including packing)	640.4 g
Weight per Piece (excluding packing)	614.25 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

Connector

Header 1

Head design	Plug
Head cable outlet	straight

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Head thread type	M8

Head 2

Head design	free cable end

Cable / line

Cable length	15 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)
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)

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	-40 °C ... 80 °C (Cable, flexible installation)
Cable weight	41 kg/km

Cable structure

Cable type	INTERBUS M8
Signal type/category	INTERBUS
External cable diameter	5.20 mm
Outer sheath, material	PUR
External sheath, color	black RAL 9005
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	19x 0.10 mm
AWG signal line	26
Conductor structure, voltage supply	19x 0.15 mm
AWG power supply	22
Material wire insulation	PP
Thickness, insulation	0.24 mm (Conductor insulation, signal line)
Wire diameter incl. insulation	0.97 mm (Signal line)
	1.25 mm (Power supply)
Single wire, color	red-blue, green-yellow
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 %

Electrical properties

Nominal voltage, cable	≤ 100 V
Test voltage Core/Core	1000 V
Test voltage Core/Shield	1000 V
Conductor resistance	≤ 155 Ω/km (Signal line)
	≤ 58 Ω/km (Power supply)
Cable insulation resistance	≥ 20 MΩ*km

Mechanical properties

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/s²

Bending cycles

Smallest bending radius, fixed installation	26 mm
Smallest bending radius, movable installation	37 mm
Number of bending cycles	1000000
Bending radius	110 mm

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Traversing path	6 m
Traversing rate	4 m/s
Acceleration	4 m/s²

Ambient conditions

Ambient temperature (operation)	-40 °C ... 80 °C (Cable, flexible installation)
	-40 °C ... 80 °C (cable, fixed installation)

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-40 °C ... 80 °C (cable, fixed installation)
	-40 °C ... 80 °C (Cable, flexible installation)

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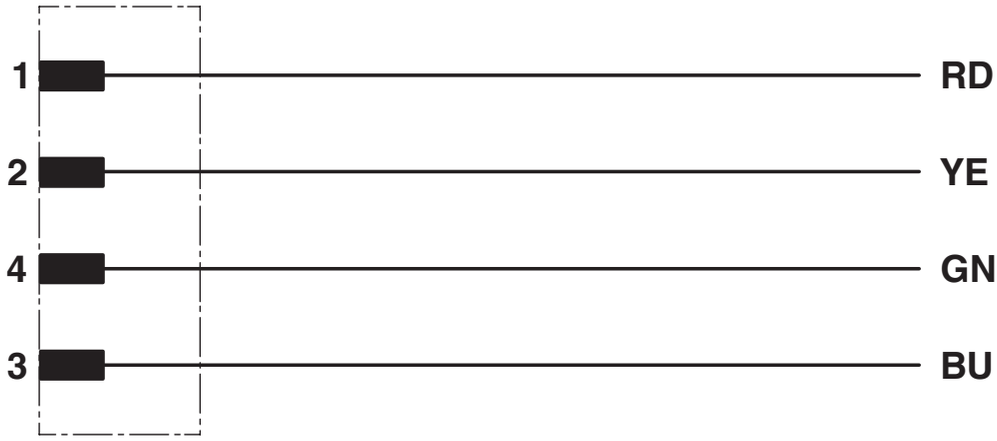
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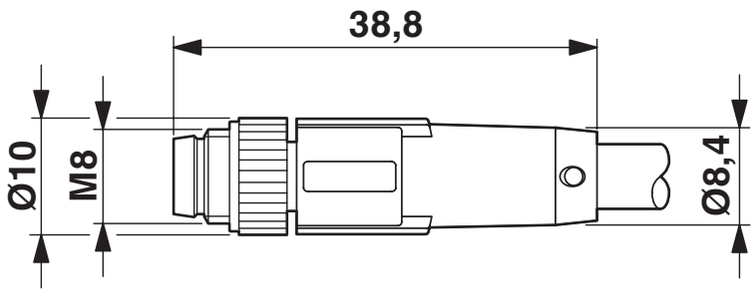
Drawings

Circuit diagram



Contact assignment of the M8 plug

Dimensional drawing



Plug M8 x 1, straight, shielded

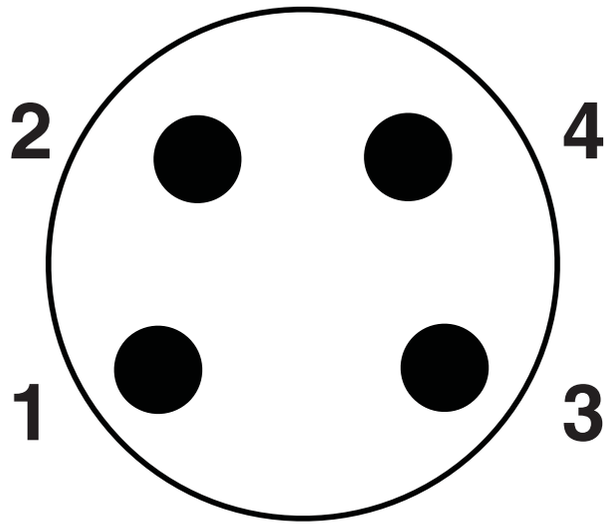
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Schematic diagram



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

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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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PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk