Bus system cable - SAC-4P-M 8MS/ 0,13-950/M 8FS - 1543346

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Bus system cable, INTERBUS, INTERBUS, 4-position, PUR halogen-free, Black RAL 9005, shielded, Plug straight M8, on Socket straight M8, Cable length: 0.13 m

Product Features

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

Key commercial data

package_quantity	1
GTIN	4046356097505

Technical data

Dimensions

Length of cable	0.13 m

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

Inflammability class according to UL 94	HB

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Technical data

Material

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 mm²) = 1 (Socket)
Position = wire color (signal) = position (optional)	3 (Plug) = BU (0.34 mm²) = 3 (Socket)
Position = wire color (signal) = position (optional)	2 (Plug) = YE (0.14 mm²) = 2 (Socket)
Position = wire color (signal) = position (optional)	4 (Plug) = GN (0.14 mm²) = 4 (Socket)

Cable

Cable type	INTERBUS
Cable type (abbreviation)	950
UL AWM style	20963 (80°C/30 V)
Conductor cross section	2x 0.14 mm² (signal line)
Conductor cross section	2x 0.34 mm² (Power supply)
Conductor cross section	1x 0.38 mm² (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)
Core diameter including insulation	1.25 mm (Power supply)
Thickness, insulation	0.24 mm (Conductor insulation, signal line)
Thickness, insulation	0.25 mm (Conductor insulation, voltage supply)
Wire colors	red-blue, green-yellow
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

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Technical data

Cable

Traversing rate	4 m/s
Acceleration	4 m/s²
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

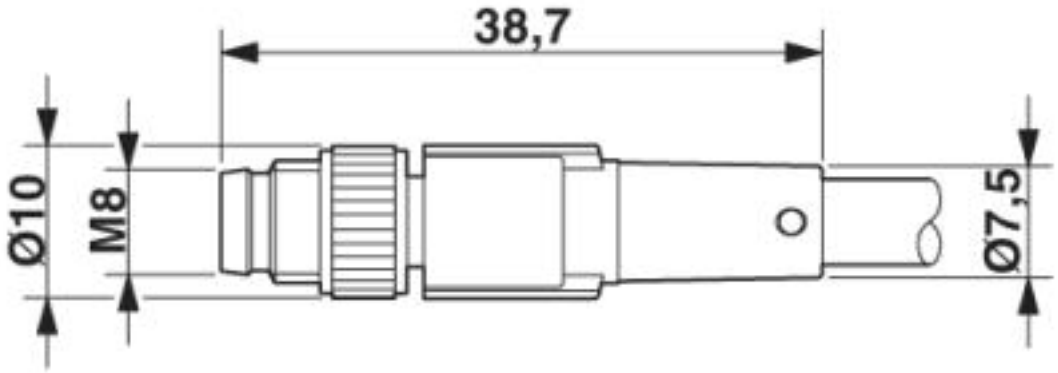
UNSPSC

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

Drawings

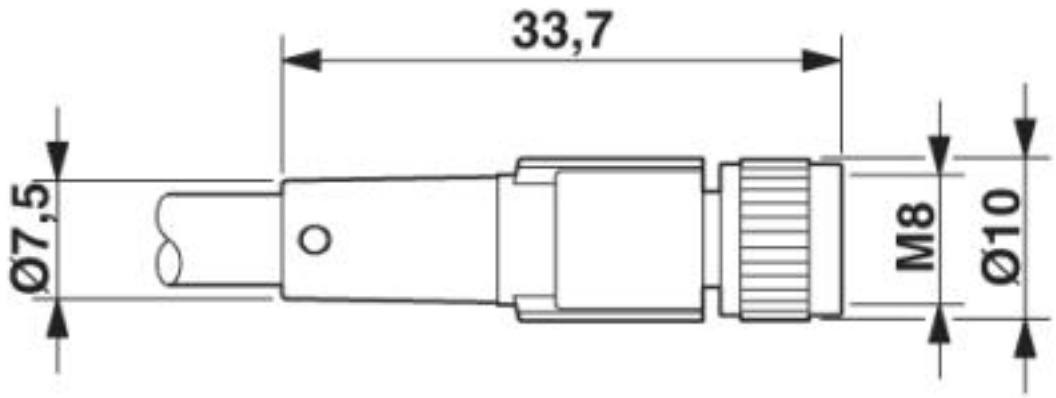
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Dimensioned drawing



Plug M8 x 1, straight, shielded

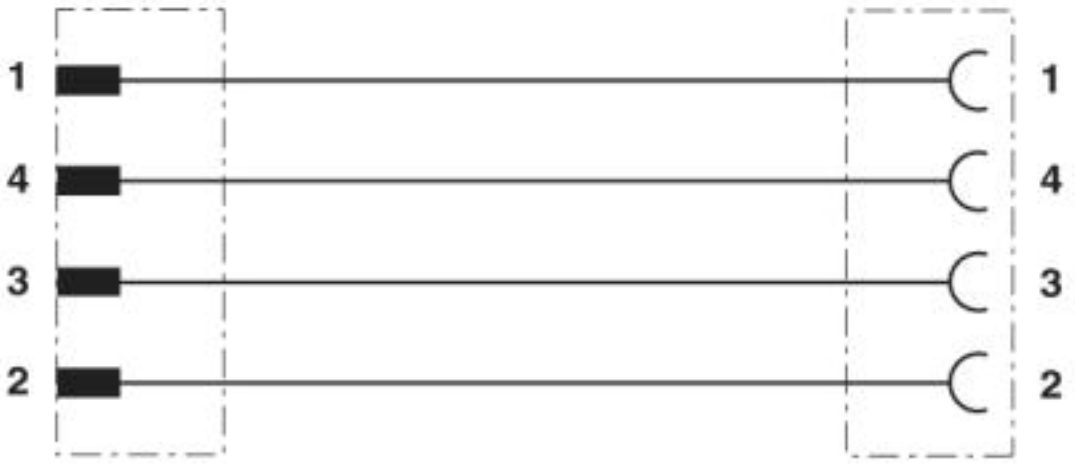
Dimensioned drawing



Socket M8 x 1, straight, shielded

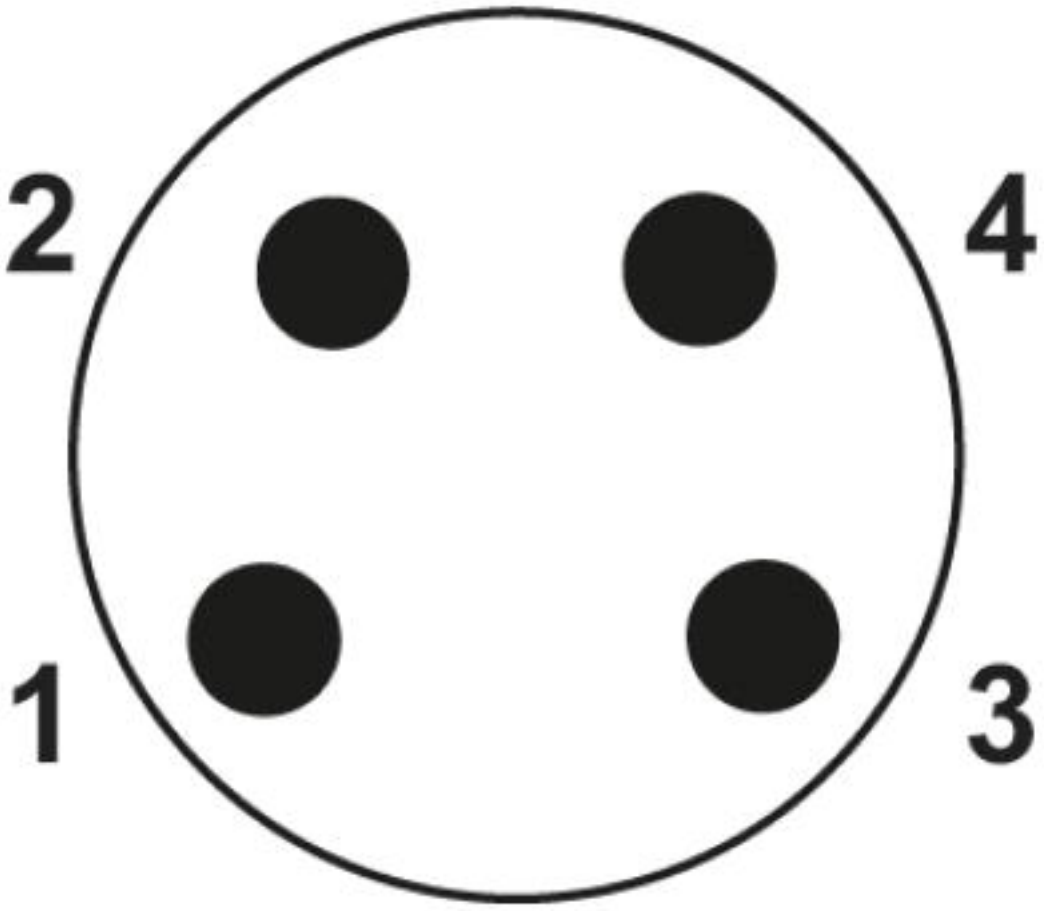
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Circuit diagram



Contact assignment of M8 plugs/sockets

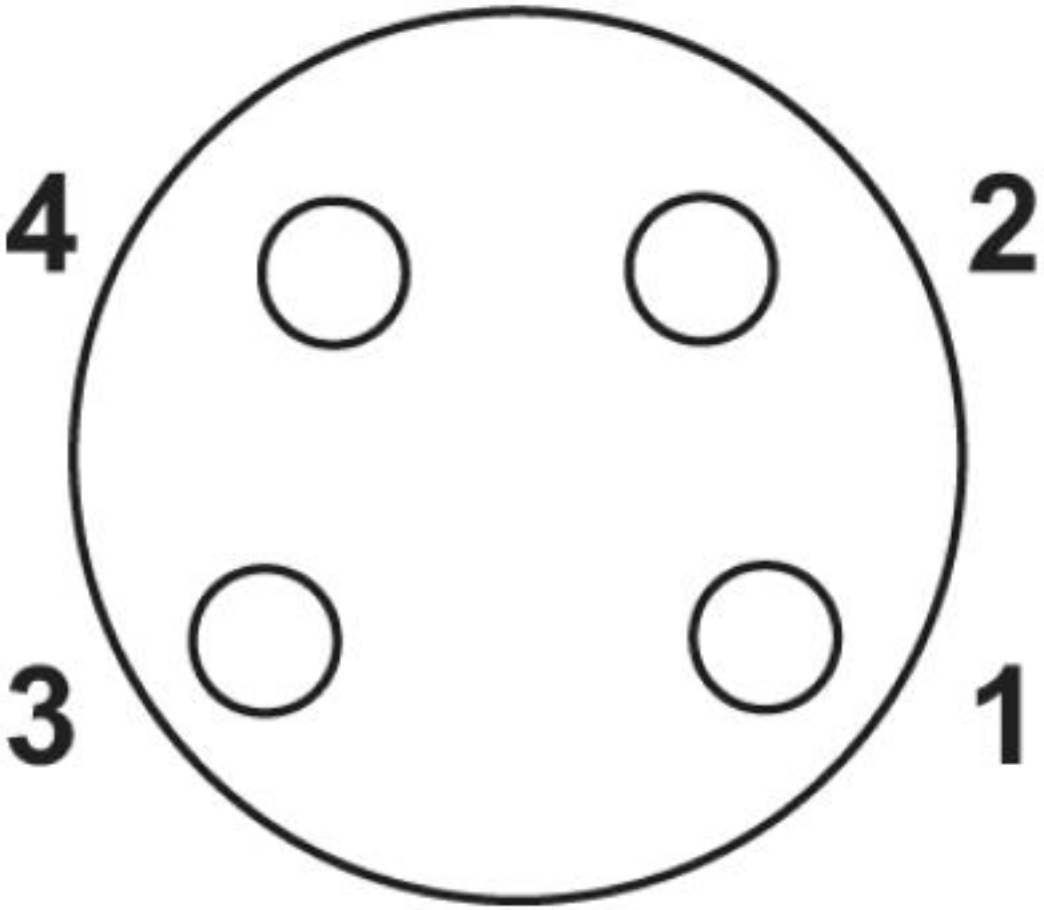
Schematic diagram



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

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Schematic diagram



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

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