

## Bus system cable - SAC-5P-M12MSB/10,0-900/M12FSB - 1507214

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Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Plug straight M12, B-coded, on Socket straight M12, B-coded, Cable length: 10 m



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 017918 900069
GTIN	4017918900069
Weight per Piece (excluding packing)	730.600 g
Custom tariff number	85444290
Country of origin	Poland

### Technical data

#### Dimensions

Length of cable	10 m
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#### 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	60 V
Number of positions	5
Insulation resistance	≥ 100 MΩ

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### Technical data

#### General

Coding	B - inverse
Signal type/category	INTERBUS, 16 Mbps
Status display	No
Overvoltage category	II
Degree of pollution	3
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 connector)

#### Material

Flammability rating according to UL 94	V0
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 66
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) = YE (DO) = 1 (Socket)
	2 (Plug) = GN (DO) = 2 (Socket)
	3 (Plug) = GY (DI) = 3 (Socket)
	4 (Plug) = PK (DI) = 4 (Socket)
	5 (Plug) = BN (GND) = 5 (Socket)

#### Standards and Regulations

Flammability rating according to UL 94	V0
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#### Cable

Cable type	INTERBUS
Cable type (abbreviation)	900
Conductor cross section	0.22 mm <sup>2</sup>
AWG signal line	24
Conductor structure signal line	32x 0.10 mm
Wire colors	Green-yellow, white-brown, gray-pink
Twisted pairs	2 cores to the pair
Overall twist	3 pairs to the core
Shielding	Braided copper wires
External sheath, color	green RAL 6017
External cable diameter	8.00 mm

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## Technical data

### Cable

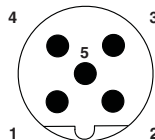
Smallest bending radius, fixed installation	60 mm
Smallest bending radius, movable installation	120 mm
Number of bending cycles	5000000
Bending radius	120 mm
Traversing path	10 m
Traversing rate	1.6 m/s
Acceleration	3.2 m/s <sup>2</sup>
Cable weight	70 kg/km
Outer sheath, material	PUR
Material conductor insulation	PE
Conductor material	Bare Cu litz wires
Insulation resistance	> 5 GΩ*km
Conductor resistance	≤ 159.8 mΩ/m
Working capacitance	60 nF (At 800 Hz)
Signal speed	0.66 c
Nominal voltage, cable	250 V
Test voltage Core/Core	1500 V
Test voltage Core/Shield	1000 V
Flame resistance	IEC 60332-1
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-30 °C ... 70 °C (cable, flexible installation)

### Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

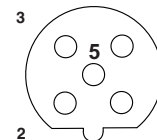
## Drawings

Schematic diagram



Pin assignment M12 male connector, 5-pos., B-coded, male side

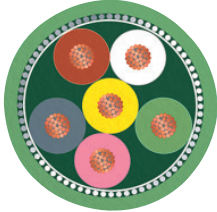
Schematic diagram



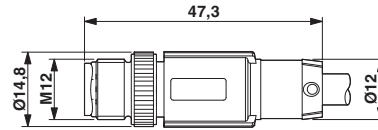
Pin assignment M12 socket, 5-pos., B-coded, female side

# Bus system cable - SAC-5P-M12MSB/10,0-900/M12FSB - 1507214

Cable cross section



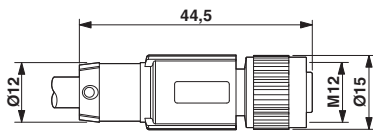
Dimensional drawing



INTERBUS [900]

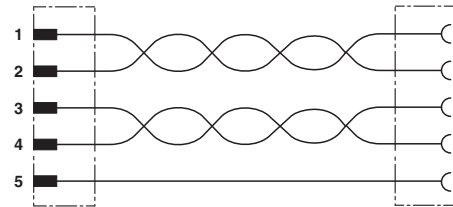
Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight, shielded

Circuit diagram



Contact assignment of the M12 connector and the M12 socket

## Approvals

Approvals

Approvals

EAC

Ex Approvals

## Approval details

EAC EAC-Zulassung
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