

## Bus system cable - SAC-5P-M12MSB/ 0,5-900/M12FSB - 1507175

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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: 0.5 m



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	80.0 g
Custom tariff number	85444290
Country of origin	Poland

### Technical data

#### Dimensions

Length of cable	0.5 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
Coding	B - inverse
Signal type/category	INTERBUS, 16 Mbps
Status display	No
Overvoltage category	II

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### Technical data

#### General

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
Smallest bending radius, fixed installation	60 mm
Smallest bending radius, movable installation	120 mm
Number of bending cycles	5000000
Bending radius	120 mm

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### Technical data

#### Cable

Traversing path	10 m
Traversing rate	1.6 m/s
Acceleration	3.2 m/s <sup>2</sup>
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)

### 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	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

#### ETIM

ETIM 2.0	EC000830
ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

#### UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501

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## Classifications

### UNSPSC

UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

## Approvals

### Approvals

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Approvals

EAC

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Ex Approvals

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Approvals submitted

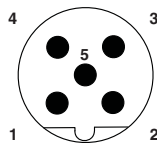
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### Approval details

EAC
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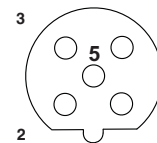
## Drawings

Schematic diagram



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

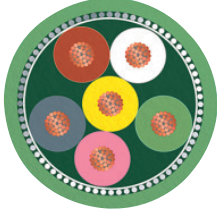
Schematic diagram



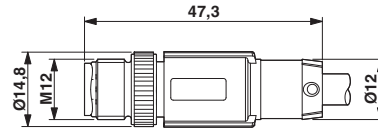
Pin assignment M12 socket, 5-pos., B-coded, female side

## Bus system cable - SAC-5P-M12MSB/ 0,5-900/M12FSB - 1507175

Cable cross section



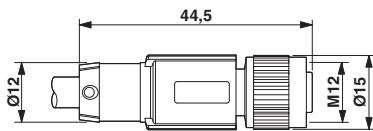
Dimensional drawing



INTERBUS [900]

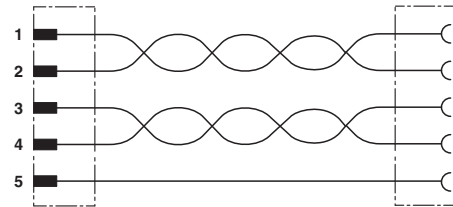
Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight, shielded

Circuit diagram



Contact assignment of the M12 connector and the M12 socket