

1517916

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Bus system cable, INTERBUS (16 Mbps), 5-position, PUR halogen-free, may green RAL 6017, shielded, free cable end, on Socket straight M12 SPEEDCON, coding: B, cable length: 2 m

#### Commercial data

Item number	1517916
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF04
Product key	BF1CKB
Catalog page	Page 198 (C-6-2019)
GTIN	4017918968038
Weight per piece (including packing)	168.3 g
Weight per piece (excluding packing)	164.5 g
Customs tariff number	85444290
Country of origin	PL



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## Technical data

#### Product properties

Product type	Data cable preassembled
Application	Standard
Sensor type	INTERBUS
Number of positions	5
No. of cable outlets	1
Shielded	yes
Coding	В

#### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

#### Interfaces

Bus system	INTERBUS
Signal type/category	INTERBUS, 16 Mbps

## Signaling

Status display	No
Status display present	No

### Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	48 V AC
	60 V DC
Nominal current I <sub>N</sub>	4 A
Transmission medium	Copper

#### Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated

### Connection data

#### Pin assignment

· ··· doorgrinion	
Contact   Color (signal designation)   Contact (optional)	1 (Socket)   YE ( <u>DO</u> )
	2 (Socket)   GN ( <u>DO</u> )
	3 (Socket)   GY (DI)



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	4 (Socket)   PK ( <u>DI</u> )
	5 (Socket)   BN (GND)
onnector	
THE COLOR	
Connection 1	
Туре	free cable end
Connection 2	
Type	free cable end
1,700	nee cable and
able/line	
Cable length	2 m
INTERRUO (000)	
INTERBUS [900]  Dimensional drawing	
Cable weight	70 kg/km
Number of positions	6
01:11	
Shielded	yes
Cable type	yes INTERBUS [900]
Cable type	INTERBUS [900]
Cable type Conductor structure	INTERBUS [900] 3 x 2 x 0.22 mm <sup>2</sup>
Cable type Conductor structure Signal speed	INTERBUS [900]  3 x 2 x 0.22 mm <sup>2</sup> 0.66 c
Cable type Conductor structure Signal speed Conductor structure signal line	INTERBUS [900]  3 x 2 x 0.22 mm <sup>2</sup> 0.66 c  32x 0.10 mm
Cable type Conductor structure Signal speed Conductor structure signal line AWG signal line	INTERBUS [900]  3 x 2 x 0.22 mm²  0.66 c  32x 0.10 mm  24
Cable type Conductor structure Signal speed Conductor structure signal line AWG signal line Conductor cross section	INTERBUS [900]  3 x 2 x 0.22 mm <sup>2</sup> 0.66 c  32x 0.10 mm  24  3x 2x 0.22 mm <sup>2</sup>
Cable type Conductor structure Signal speed Conductor structure signal line AWG signal line Conductor cross section External cable diameter	INTERBUS [900]  3 x 2 x 0.22 mm²  0.66 c  32x 0.10 mm  24  3x 2x 0.22 mm²  8.00 mm
Cable type Conductor structure Signal speed Conductor structure signal line AWG signal line Conductor cross section External cable diameter Outer sheath, material	INTERBUS [900]  3 x 2 x 0.22 mm <sup>2</sup> 0.66 c  32x 0.10 mm  24  3x 2x 0.22 mm <sup>2</sup> 8.00 mm  PUR
Cable type Conductor structure Signal speed Conductor structure signal line AWG signal line Conductor cross section External cable diameter Outer sheath, material External sheath, color	INTERBUS [900]  3 x 2 x 0.22 mm²  0.66 c  32x 0.10 mm  24  3x 2x 0.22 mm²  8.00 mm  PUR  may green RAL 6017
Cable type Conductor structure Signal speed Conductor structure signal line AWG signal line Conductor cross section External cable diameter Outer sheath, material External sheath, color Conductor material	INTERBUS [900]  3 x 2 x 0.22 mm²  0.66 c  32x 0.10 mm  24  3x 2x 0.22 mm²  8.00 mm  PUR  may green RAL 6017  Bare Cu litz wires
Cable type Conductor structure Signal speed Conductor structure signal line AWG signal line Conductor cross section External cable diameter Outer sheath, material External sheath, color Conductor material Material wire insulation	INTERBUS [900]  3 x 2 x 0.22 mm²  0.66 c  32x 0.10 mm  24  3x 2x 0.22 mm²  8.00 mm  PUR  may green RAL 6017  Bare Cu litz wires  PE
Cable type Conductor structure Signal speed Conductor structure signal line AWG signal line Conductor cross section External cable diameter Outer sheath, material External sheath, color Conductor material Material wire insulation Single wire, color	INTERBUS [900]  3 x 2 x 0.22 mm²  0.66 c  32x 0.10 mm  24  3x 2x 0.22 mm²  8.00 mm  PUR  may green RAL 6017  Bare Cu litz wires  PE  green-yellow, white-brown, gray-pink
Cable type Conductor structure Signal speed Conductor structure signal line AWG signal line Conductor cross section External cable diameter Outer sheath, material External sheath, color Conductor material Material wire insulation Single wire, color Twisted pairs	INTERBUS [900]  3 x 2 x 0.22 mm²  0.66 c  32x 0.10 mm  24  3x 2x 0.22 mm²  8.00 mm  PUR  may green RAL 6017  Bare Cu litz wires  PE  green-yellow, white-brown, gray-pink  2 cores to the pair
Cable type Conductor structure Signal speed Conductor structure signal line AWG signal line Conductor cross section External cable diameter Outer sheath, material External sheath, color Conductor material Material wire insulation Single wire, color Twisted pairs Overall twist Insulation resistance	INTERBUS [900]  3 x 2 x 0.22 mm²  0.66 c  32x 0.10 mm  24  3x 2x 0.22 mm²  8.00 mm  PUR  may green RAL 6017  Bare Cu litz wires  PE  green-yellow, white-brown, gray-pink  2 cores to the pair  3 pairs to the core  ≥ 5 GΩ*km
Cable type Conductor structure Signal speed Conductor structure signal line AWG signal line Conductor cross section External cable diameter Outer sheath, material External sheath, color Conductor material Material wire insulation Single wire, color Twisted pairs Overall twist Insulation resistance Coupling resistance	INTERBUS [900]  3 x 2 x 0.22 mm²  0.66 c  32x 0.10 mm  24  3x 2x 0.22 mm²  8.00 mm  PUR  may green RAL 6017  Bare Cu litz wires  PE  green-yellow, white-brown, gray-pink  2 cores to the pair  3 pairs to the core
Cable type Conductor structure Signal speed Conductor structure signal line AWG signal line Conductor cross section External cable diameter Outer sheath, material External sheath, color Conductor material Material wire insulation Single wire, color Twisted pairs Overall twist Insulation resistance	INTERBUS [900] $3 \times 2 \times 0.22 \text{ mm}^2$ $0.66 \text{ c}$ $32 \times 0.10 \text{ mm}$ $24$ $3 \times 2 \times 0.22 \text{ mm}^2$ $8.00 \text{ mm}$ PUR  may green RAL 6017  Bare Cu litz wires  PE  green-yellow, white-brown, gray-pink  2 cores to the pair  3 pairs to the core $\geq 5 \text{ G}\Omega^*\text{km}$ < 250.00 mΩ/m (at 30 MHz)



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able capacity	≤ 60 nF/km (At 800 Hz)
ominal voltage, cable	250 V (Peak value, not for high-power applications)
est voltage Core/Core	1500 V <sub>rms</sub>
est voltage Core/Shield	1000.00 V <sub>rms</sub>
nimum bending radius, fixed installation	7.5 x D
nimum bending radius, flexible installation	15 x D
nallest bending radius, fixed installation	60 mm
nallest bending radius, movable installation	120 mm
ax. bending cycles	5000000
ear end crosstalk attenuation (NEXT)	≥ 61 dB (at 772 kHz)
	≥ 59 dB (with 1 MHz)
	≥ 55 dB (at 2 MHz)
	≥ 50 dB (at 4 MHz)
	≥ 46 dB (at 8 MHz)
	≥ 44 dB (at 10 MHz)
	≥ 41 dB (at 16 MHz)
	≥ 40 dB (at 20 MHz)
nield attenuation	≤ 15 dB/km (at 256 kHz)
	≤ 24 dB/km (at 772 kHz)
	≤ 27 dB/km (with 1 MHz)
	≤ 52 dB/km (at 4 MHz)
	≤ 84 dB/km (at 10 MHz)
	≤ 112 dB/km (at 16 MHz)
	≤ 119 dB/km (at 20 MHz)
ame resistance	according to VDE 0472, Part 4, test type B
	according to IEC 60332-1
nbient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-30 °C 70 °C (Cable, flexible installation)

#### Environmental and real-life conditions

#### Ambient conditions

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

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