

# IBS INBC METER/S - Installation remote bus cable



2759870

<https://www.phoenixcontact.com/us/products/2759870>

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By the meter, Installation remote bus cable, INTERBUS, shielded, PUR, may green RAL 6017, 9-wire (3 x 2 x 0.25 mm<sup>2</sup> + 3 x 1 mm<sup>2</sup>), color single wire: green-yellow, white-brown, gray-pink, red, blue, green/yellow, highly flexible, welding sputter-resistant

## Commercial data

Item number	2759870
Packing unit	1 m
Minimum order quantity	1 m
Note	Made to order (non-returnable)
Sales key	BF11
Product key	AF1LEA
GTIN	4017918064020
Weight per piece (including packing)	90.24 g
Weight per piece (excluding packing)	90.24 g
Customs tariff number	85444995
Country of origin	DE

## Technical data

### Product properties

Product type	Remote bus cable
Number of positions	9

### Electrical properties

Transmission medium	Copper
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### Cable/line

Number of positions	9
Shielded	yes
Conductor structure	3 x 2 x 0.25 mm <sup>2</sup> + 3 x 1 mm <sup>2</sup>
Signal speed	0.66 c
Conductor structure signal line	32x 0.10 mm
Conductor structure, voltage supply	56x 0.15 mm
Conductor cross-section	3x 2x 0.25 mm <sup>2</sup> (Data) 3x 1 mm <sup>2</sup> (Supply)
Wire diameter incl. insulation	1 mm (Data) 1.7 mm (Supply)
External cable diameter	7.70 mm +0.2 mm
Outer sheath, material	PUR
External sheath, color	may green RAL 6017
Conductor material	Bare Cu litz wires
Material wire insulation	PE
Single wire, color	green-yellow, white-brown, gray-pink, red, blue, green/yellow
Twisted pairs	2 cores to the pair
Overall twist	3 pairs and 3 wires to form the core
Insulation resistance	≥ 5 GΩ*km (Data) ≥ 5 GΩ*km (Supply)
Coupling resistance	< 250.00 mΩ/m (at 30 MHz)
Loop resistance	≤ 159.80 Ω/km (Data) ≤ 19.50 Ω/km (Supply)
Wave impedance	110 Ω ±20 Ω (at 64 kHz) 95 Ω ±15 Ω (at >1 MHz)
Cable capacity	≤ 60 nF/km (At 800 Hz)
Nominal voltage, cable	250 V (Peak value, not for high-power applications) 450 V (Supply)
Test voltage Core/Core	1500 V <sub>rms</sub>
Test voltage Core/Shield	1000.00 V <sub>rms</sub>
Minimum bending radius, fixed installation	7.5 x D
Minimum bending radius, flexible installation	15 x D
Smallest bending radius, fixed installation	58 mm

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Smallest bending radius, movable installation	116 mm
Near 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)
Shield attenuation	≤ 10 dB/km (at 256 kHz)
	≤ 25 dB/km (at 772 kHz)
	≤ 28 dB/km (with 1 MHz)
	≤ 69 dB/km (at 4 MHz)
	≤ 12 dB/km (at 10 MHz)
	≤ 15.5 dB/km (at 16 MHz)
	≤ 17.2 dB/km (at 20 MHz)
Flame resistance	according to VDE 0472, Part 804, test type B
	according to IEC 60332-1
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-30 °C ... 70 °C (Cable, flexible installation)

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2759870>



**EAC-RoHS**

Approval ID: RU D-DE.HB35.B.00371

**INTERBUS CLUB**

Approval ID: 114/27.05.97

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## Classifications

### ECLASS

ECLASS-13.0	27061801
ECLASS-15.0	27061801

### ETIM

ETIM 10.0	EC003249
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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