

# IBS INBC METER/E - Installation remote bus cable



2723152

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By the meter, Installation remote bus cable, INTERBUS, shielded, PVC/PVC, black RAL 9005, 9-wire ( $3 \times 2 \times 0.22 \text{ mm}^2 + 3 \times 1 \text{ mm}^2$ ), color single wire: green-yellow, white-brown, gray-pink, red, blue, green/yellow, for underground runs

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2723152                        |
| Packing unit                         | 1 m                            |
| Minimum order quantity               | 1 m                            |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF11                           |
| Product key                          | AF1LEA                         |
| GTIN                                 | 4017918141288                  |
| Weight per piece (including packing) | 137.6 g                        |
| Weight per piece (excluding packing) | 137.6 g                        |
| Customs tariff number                | 85444993                       |
| Country of origin                    | DE                             |

## Technical data

### Product properties

|                     |                  |
|---------------------|------------------|
| Product type        | Remote bus cable |
| Number of positions | 9                |

### Electrical properties

|                     |        |
|---------------------|--------|
| Transmission medium | Copper |
|---------------------|--------|

### Cable/line

|                                               |                                                                       |
|-----------------------------------------------|-----------------------------------------------------------------------|
| Number of positions                           | 9                                                                     |
| Shielded                                      | yes                                                                   |
| Conductor structure                           | 3 x 2 x 0.22 mm <sup>2</sup> + 3 x 1 mm <sup>2</sup>                  |
| Signal speed                                  | 0.66 c                                                                |
| Conductor structure signal line               | 7x 0.20 mm                                                            |
| Conductor structure, voltage supply           | 14x 0.30 mm                                                           |
| Conductor cross-section                       | 3x 2x 0.22 mm <sup>2</sup> (Data)<br>3x 1 mm <sup>2</sup> (Supply)    |
| Wire diameter incl. insulation                | 1 mm (Data)<br>1.7 mm (Supply)                                        |
| External cable diameter                       | 9.70 mm ±0.3 mm                                                       |
| Outer sheath, material                        | PVC                                                                   |
| External sheath, color                        | black RAL 9005                                                        |
| Conductor material                            | Bare Cu litz wires                                                    |
| Material wire insulation                      | PE                                                                    |
| Single wire, color                            | green-yellow, white-brown, gray-pink, red, blue, green/yellow         |
| Inner sheath thickness                        | 0.90 mm                                                               |
| Twisted pairs                                 | 2 cores to the pair                                                   |
| Overall twist                                 | 3 pairs and 3 wires to form the core                                  |
| Insulation resistance                         | ≥ 5 GΩ*km (Data)<br>≥ 5 GΩ*km (Supply)                                |
| Coupling resistance                           | < 250.00 mΩ/m (at 30 MHz)                                             |
| Loop resistance                               | ≤ 186.00 Ω/km (Data)<br>≤ 19.50 Ω/km (Supply)                         |
| Wave impedance                                | 110 Ω ±20 Ω (at 64 kHz)<br>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)<br>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                                                                |

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|                                               |                                                |
|-----------------------------------------------|------------------------------------------------|
| Smallest bending radius, fixed installation   | 73 mm                                          |
| Smallest bending radius, movable installation | 146 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)                       |
| Flame resistance                              | according to VDE 0472, Part 804, test type B   |
|                                               | according to IEC 60332-1                       |
| Ambient temperature (operation)               | -30 °C ... 70 °C (cable, fixed installation)   |
|                                               | -5 °C ... 70 °C (Cable, flexible installation) |

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## Approvals

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**EAC-RoHS**

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

**INTERBUS CLUB**

Approval ID: 113/27.05.97

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27061801 |
| ECLASS-15.0 | 27061801 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC003249 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|                                         |                    |
|-----------------------------------------|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|-----------------------------------------|--------------------|

### 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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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)