

# IBS RBC METER/F-T - Remote bus cable



2723123

<https://www.phoenixcontact.com/us/products/2723123>

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By the meter, Remote bus cable, INTERBUS, shielded, PUR halogen-free, may green RAL 6017, 6-wire (3 x 2 x 0.22 mm<sup>2</sup>), color single wire: green-yellow, white-brown, gray-pink, flexible installation

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 2723123                        |
| Packing unit                         | 1 m                            |
| Minimum order quantity               | 1 m                            |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF11                           |
| Product key                          | AF1LEA                         |
| GTIN                                 | 4017918132552                  |
| Weight per piece (including packing) | 70.68 g                        |
| Weight per piece (excluding packing) | 70.68 g                        |
| Customs tariff number                | 85444993                       |
| Country of origin                    | DE                             |

## Technical data

### Product properties

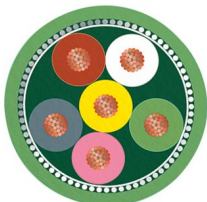
|                     |                  |
|---------------------|------------------|
| Product type        | Remote bus cable |
| Number of positions | 6                |

### Electrical properties

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

### Cable/line

#### INTERBUS [900]

|                                 |                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------|
| Dimensional drawing             |  |
| Cable weight                    | 70 kg/km                                                                            |
| Number of positions             | 6                                                                                   |
| Shielded                        | yes                                                                                 |
| Cable type                      | INTERBUS [900]                                                                      |
| Conductor structure             | 3 x 2 x 0.22 mm <sup>2</sup>                                                        |
| Signal speed                    | 0.66 c                                                                              |
| Conductor structure signal line | 32x 0.10 mm                                                                         |
| AWG signal line                 | 24                                                                                  |
| Conductor cross-section         | 3x 2x 0.22 mm <sup>2</sup>                                                          |
| External cable diameter         | 8.00 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                                                |
| Twisted pairs                   | 2 cores to the pair                                                                 |
| Overall twist                   | 3 pairs to the core                                                                 |
| Insulation resistance           | ≥ 5 GΩ*km                                                                           |
| Coupling resistance             | < 250.00 mΩ/m (at 30 MHz)                                                           |
| Loop resistance                 | ≤ 159.80 Ω/km                                                                       |
| Wave impedance                  | 120 Ω ±20 % (at 64 kHz)<br>100 Ω ±15 % (with 1 MHz)                                 |
| Cable capacity                  | ≤ 60 nF/km (At 800 Hz)                                                              |
| Nominal voltage, cable          | 250 V (Peak value, not for high-power applications)                                 |

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|                                               |                                                                                                                                           |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 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   | 60 mm                                                                                                                                     |
| Smallest bending radius, movable installation | 120 mm                                                                                                                                    |
| Dynamic load capacity (bending)               | Max. 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> |
| 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)                                                                                                                       |
| Shield attenuation                            | ≥ 40 dB (at 20 MHz)                                                                                                                       |
|                                               | ≤ 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)                                                                                                                   |
| Flame resistance                              | ≤ 119 dB/km (at 20 MHz)                                                                                                                   |
|                                               | according to VDE 0472, Part 4, test type B                                                                                                |
| Ambient temperature (operation)               | according to IEC 60332-1                                                                                                                  |
|                                               | -40 °C ... 80 °C (cable, fixed installation)                                                                                              |
|                                               | -30 °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: 117/27.05.97

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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%               |
| EF3.1 Climate Change                    |                                          |
| CO2e kg                                 | 0.214 kg CO2e                            |