IBS INBC METER - Installation remote bus cable

2723136

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By the meter, Installation remote bus cable, INTERBUS, shielded, PUR, may green RAL 6017, 9-wire (3 x 2 x 0.22 mm^2 + 3 x 1 mm^2), color single wire: green-yellow, white-brown, gray-pink, red, blue, green/yellow, fixed installation

Product description

Installation remote bus line, twisted pair data cable and power
Phoenix Contact offers three different types of cable for remote bus and installation remote bus lines. These are suited to extremely varied applications.
The fields of applications are mostly a result of the mechanical properties:
2723136 IBS INBC METER:
Standard installation remote bus cables (three additional insulated conductors for power supply):
- For fixed installation
2759870 IBS INBC METER/S:
Highly flexible installation remote bus cables:
- Flexible cable conduits and
- Machine parts which are frequently in motion
2723152 IBS INBC METER/E:
Installation remote bus cables for underground installation:
- Fixed installation indoors and outdoors or underground

Shielding
In order to provide data lines optimum protection against interference coupling, the braided shield on both sides of the bus line must be connected to the ground point of the system. There should be no compensating currents caused by potential differences flowing through the data line shield. Two measures can be implemented to prevent this:
- Equipotential bonding: The chassis ground points of the system are connected to one another by a separate line. Compensating currents flow via this compensating current line (as per DIN VDE 0100).
- Capacitive connection to chassis ground of the shielding on one side of the cable. Only high frequency parasitic signals are discharged to chassis ground via this connection. Low-frequency compensating currents do not flow.
The manufacturing of INTERBUS cables is described in more detail in the IBS SYS PRO INST UM (item no. 2743792) user manual.
When manufacturing all listed lines, no covering and insulation materials containing substances which would hinder coating with paint or varnish are used.

Commercial data

Item number	2723136
Packing unit	1 m
Minimum order quantity	1 m
Note	Made to order (non-returnable)
Sales key	BF11
Product key	AF1LEA
GTIN	4017918132569
Weight per piece (including packing)	86.96 g

Weight per piece (excluding packing)	86.96 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 mm² + 3 x 1 mm²
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 mm² (Data)
	3x 1 mm² (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	≤ (Data)
	≤ (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_{rms}
Test voltage Core/Shield	1000.00 V_{rms}
Minimum bending radius, fixed installation	7.5 x D
Minimum bending radius, flexible installation	15 x D
Smallest bending radius, fixed installation	58 mm

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)

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2723136

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

INTERBUS CLUB
Approval ID: 115/27.05.97

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

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