Installation remote bus cable - IBS INBC METER - 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 mm² + 3 x 1 mm²), 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.

Key Commercial Data

Packing unit	1 M
GTIN	4 017918 132569
GTIN	4017918132569

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Weight per Piece (excluding packing)	86.960 g
Custom tariff number	85444993
Country of origin	Germany

Technical data

General data

Number of positions	9
Alternative short product description	Installation remote bus cable

Cable

Signal type/category	INTERBUS
Cable structure	3 x 2 x 0.22 mm² + 3 x 1 mm²
Conductor cross section	3x 2x 0.22 mm² (Data)
	3x 1 mm² (Supply)
Conductor structure signal line	7x 0.20 mm
Conductor structure, voltage supply	14x 0.30 mm
Core diameter including insulation	1 mm (Data)
	1.7 mm (Supply)
Wire colors	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
Shielding	Tinned copper braided shield
External sheath, color	may green RAL 6017
External cable diameter D	7.7 mm +0.2 mm
Minimum bending radius, fixed installation	7.5 x D
Minimum bending radius, flexible installation	15 x D
Outer sheath, material	PUR
Material conductor insulation	PE
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 5 GΩ*km (Data)
	≥ 5 GΩ*km (Supply)
Loop resistance	≤ (Data)
	≤ (Supply)
Cable capacity	≤ 60 nF/km (At 800 Hz)
Wave impedance	110 Ω ±20 Ω (at 64 kHz)
	95 Ω ±15 Ω (at >1 MHz)
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)

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Technical data

Cable

	≥ 46 dB (at 8 MHz)
	≥ 44 dB (at 10 MHz)
	≥ 41 dB (at 16 MHz)
	≥ 40 dB (at 20 MHz)
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)
Signal speed	0.66 c
Coupling resistance	< 250.00 mΩ/m (at 30 MHz)
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 V_{rms}
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)
Shielded	yes

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Classifications

eCl@ss

eCl@ss 10.0.1	27060390
eCl@ss 11.0	27061801
eCl@ss 4.0	24010400
eCl@ss 4.1	24010400
eCl@ss 5.0	19030300
eCl@ss 5.1	19030300
eCl@ss 6.0	27061800

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Classifications

eCl@ss

eCl@ss 7.0	27061801
eCl@ss 9.0	27061801

ETIM

ETIM 2.0	EC000304
ETIM 3.0	EC000830
ETIM 4.0	EC002498
ETIM 6.0	EC000830
ETIM 7.0	EC003249

UNSPSC

UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404
UNSPSC 11	39121311
UNSPSC 12.01	39121311
UNSPSC 13.2	26121604
UNSPSC 18.0	26121604
UNSPSC 19.0	26121604
UNSPSC 20.0	26121604
UNSPSC 21.0	26121604

Approvals

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INTERBUS CLUB / EAC-RoHS

Ex Approvals

Approval details

INTERBUS CLUB	115/27.05.97

EAC-RoHS	EAC	RU D-DE.HB35.B.00371