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By the meter, Installation remote bus cable, INTERBUS, shielded, PUR, may green RAL 6017, 9-wire (3 x 2 x  $0.22 \text{ mm}^2 + 3 \text{ x 1 mm}^2$ ), 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.



### **Key Commercial Data**

Packing unit	1 M	
GTIN	4 017918 132569	
GTIN	4017918132569	
Weight per Piece (excluding packing)	86.960 g	
Custom tariff number	85444993	
Country of origin	Germany	



Note	Made to Order (non-returnable)

#### Technical data

#### General data

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

#### Cable

INTERBUS   3 x 2 x 0.22 mm² + 3 x 1 mm²   3 x 2 x 0.22 mm² + 3 x 1 mm²   Conductor cross section   3 x 2 x 0.22 mm² (Data)   3 x 1 mm² (Supphy)   Conductor structure signal line   7 x 0.20 mm   7 x 0.20 mm   Conductor structure, voltage supply   14 x 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   3 pairs and 3 wires to form the core   5 hielding   Tinned copper braided shield   Tinned copper braided s		
Conductor cross section         3x 2x 0.22 mm² (Data)           Conductor structure signal line         7x 0.20 mm           Conductor structure, voltage supply         14x 0.30 mm           Core diameter including insulation         1 mm (Data)           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 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, fixed installation         15 x D           Outer sheath, material         PUR           Material conductor insulation         PE           Conductor material         Bare Cu litz wires           Insulation resistance         ≥ 5 GΩ*km (Data)           Loop resistance         ≤ (Supply)           Loop resistance         ≤ (Supply)           Cable capacity         ≤ 60 nF/km (At 800 Hz)           Wave impedance         110 Ω ±20 Ω (at 64 kHz)           ≥ 55 dB (with 1 MHz) </td <td>Signal type/category</td> <td>INTERBUS</td>	Signal type/category	INTERBUS
3x 1 mm² (Supply)	Cable structure	3 x 2 x 0.22 mm² + 3 x 1 mm²
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)           Loop resistance         ≤ 5 GΩ*km (Supply)           Cable capacity         ≤ 60 nF/km (At 800 Hz)           Wave impedance         110 Ω ±20 Ω (at 64 kHz)           Near end crosstalk attenuation (NEXT)         ≥ 61 dB (at 772 kHz)           ≥ 59 dB (with 1 MHz)         ≥ 55 dB (at 2 MHz)           ≥ 50 dB (at 8 MHz)         ≥	Conductor cross section	3x 2x 0.22 mm² (Data)
Conductor structure, voltage supply         14x 0.30 mm           Core diameter including insulation         1 mm (Data)           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)           Loop resistance         ≤ (Supply)           Loop resistance         ≤ (Supply)           Cable capacity         ≤ 60 nF/km (At 800 Hz)           Wave impedance         110 Ω ±20 Ω (at 64 kHz)           Wave impedance         110 Ω ±20 Ω (at 64 kHz)           Near end crosstalk attenuation (NEXT)         ≥ 61 dB (at 772 kHz)           ≥ 50 dB (at 4 MHz)         ≥ 50 dB (at 4 MHz)           ≥ 44 dB (at 10 MHz)		3x 1 mm² (Supply)
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)           Loop resistance         ≤ (Data)           Loop resistance         ≤ (Supply)           Cable capacity         ≤ 60 nF/km (At 800 Hz)           Wave impedance         110 Ω±20 Ω (at 64 kHz)           Wave impedance         110 Ω±20 Ω (at 64 kHz)           Explain the first twith the material stream the corestalk attenuation (NEXT)         ≥ 50 dB (at 772 kHz)           ≥ 59 dB (with 1 MHz)         ≥ 55 dB (at 2 MHz)           ≥ 50 dB (at 4 MHz)	Conductor structure signal line	7x 0.20 mm
1.7 mm (Supply)   Wire colors   green-yellow, white-brown, gray-pink, red, blue, green/yellow	Conductor structure, voltage supply	14x 0.30 mm
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         15 x D           Minimum bending radius, fixed installation         15 x D           Outer sheath, material         PUR           Material conductor insulation         PE           Conductor material         Bare Cu litz wires           Insulation resistance         ≥ 5 GΩ*km (Data)           Loop resistance         ≤ (Supply)           Cable capacity         ≤ 60 nF/km (At 800 Hz)           Wave impedance         110 Ω±20 Ω (at 64 kHz)           Wave impedance         110 Ω±20 Ω (at 72 kHz)           ≥ 59 dB (with 1 MHz)         ≥ 59 dB (with 1 MHz)           ≥ 55 dB (at 2 MHz)         ≥ 50 dB (at 4 MHz)           ≥ 50 dB (at 4 MHz)         ≥ 44 dB (at 10 MHz)	Core diameter including insulation	1 mm (Data)
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)           Loop resistance         ≤ (Supply)           Loop resistance         ≤ (Supply)           Cable capacity         ≤ 60 nF/km (At 800 Hz)           Wave impedance         110 Ω±20 Ω (at 64 kHz)           Wave impedance         110 Ω±20 Ω (at 72 kHz)           ≥ 59 dB (with 1 MHz)         ≥ 59 dB (with 1 MHz)           ≥ 55 dB (at 2 MHz)         ≥ 50 dB (at 4 MHz)           ≥ 50 dB (at 4 MHz)         ≥ 44 dB (at 10 MHz)		1.7 mm (Supply)
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 $\geq 5 \text{ GO*km}$ (Supply)   Loop resistance $\leq 60 \text{ nF/km}$ (At 800 Hz)   Wave impedance 110 $\Omega \pm 20 \Omega$ (at 64 kHz)   Wave impedance 110 $\Omega \pm 20 \Omega$ (at 64 kHz)   Near end crosstalk attenuation (NEXT) $\geq 61 \text{ dB}$ (at 772 kHz) $\geq 50 \text{ dB}$ (at 8 MHz) $\geq 46 \text{ dB}$ (at 8 MHz) $\geq 44 \text{ dB}$ (at 10 MHz)	Wire colors	green-yellow, white-brown, gray-pink, red, blue, green/yellow
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)           Loop resistance         ≤ (Data)           Loop resistance         ≤ (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)         ≥ 50 dB (at 8 MHz)           ≥ 44 dB (at 10 MHz)         ≥ 44 dB (at 10 MHz)	Twisted pairs	2 cores to the pair
External sheath, color	Overall twist	3 pairs and 3 wires to form the core
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 $\geq 5 \text{ G}\Omega^*\text{km}$ (Data)  Loop resistance $\leq 60 \text{ nF/km}$ (Supply)  Cable capacity $\leq 60 \text{ nF/km}$ (At 800 Hz)  Wave impedance 110 $\Omega \pm 20 \Omega$ (at 64 kHz)  PS $\Omega \pm 15 \Omega$ (at >1 MHz)  Near end crosstalk attenuation (NEXT) $\geq 50 \text{ dB}$ (at 2 MHz) $\geq 50 \text{ dB}$ (at 4 MHz) $\geq 50 \text{ dB}$ (at 4 MHz) $\geq 46 \text{ dB}$ (at 8 MHz) $\geq 44 \text{ dB}$ (at 10 MHz)	Shielding	Tinned copper braided shield
Minimum bending radius, fixed installation $7.5 \times D$ Minimum bending radius, flexible installation $15 \times D$ Outer sheath, materialPURMaterial conductor insulationPEConductor materialBare Cu litz wiresInsulation resistance $\geq 5 \text{ G}\Omega^*\text{km}$ (Data)Loop resistance $\leq (\text{Data})$ Cable capacity $\leq 60 \text{ nF/km}$ (At 800 Hz)Wave impedance $110 \Omega \pm 20 \Omega$ (at 64 kHz)Near end crosstalk attenuation (NEXT) $\geq 61 \text{ dB}$ (at 772 kHz) $\geq 59 \text{ dB}$ (with 1 MHz) $\geq 55 \text{ dB}$ (at 2 MHz) $\geq 50 \text{ dB}$ (at 4 MHz) $\geq 46 \text{ dB}$ (at 8 MHz) $\geq 44 \text{ dB}$ (at 10 MHz)	External sheath, color	may green RAL 6017
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)           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)         ≥ 46 dB (at 8 MHz)           ≥ 44 dB (at 10 MHz)         ≥ 44 dB (at 10 MHz)	External cable diameter D	7.7 mm +0.2 mm
Outer sheath, material PUR  Material conductor insulation PE  Conductor material Bare Cu litz wires  Insulation resistance $\geq 5 \text{ G}\Omega^*\text{km}$ (Data) $\geq 5 \text{ G}\Omega^*\text{km}$ (Supply)  Loop resistance $\leq (\text{Data})$ $\leq (\text{Supply})$ Cable capacity $\leq 60 \text{ nF}/\text{km}$ (At 800 Hz)  Wave impedance $\leq 110 \text{ O} \pm 20 \text{ O}$ (at 64 kHz) $95 \text{ O} \pm 15 \text{ O}$ (at >1 MHz)  Near end crosstalk attenuation (NEXT) $\geq 61 \text{ dB}$ (at 772 kHz) $\geq 59 \text{ dB}$ (with 1 MHz) $\geq 55 \text{ dB}$ (at 2 MHz) $\geq 50 \text{ dB}$ (at 4 MHz) $\geq 46 \text{ dB}$ (at 8 MHz) $\geq 44 \text{ dB}$ (at 10 MHz)	Minimum bending radius, fixed installation	7.5 x D
Material conductor insulationPEConductor materialBare Cu litz wiresInsulation resistance $\geq 5 \text{ G}\Omega^*\text{km}$ (Data)Loop resistance $\leq (\text{Data})$ $\leq (\text{Data})$ $\leq (\text{Supply})$ Cable capacity $\leq 60 \text{ nF/km}$ (At 800 Hz)Wave impedance $110 \Omega \pm 20 \Omega$ (at 64 kHz) $95 \Omega \pm 15 \Omega$ (at >1 MHz)Near end crosstalk attenuation (NEXT) $\geq 61 \text{ dB}$ (at 772 kHz) $\geq 59 \text{ dB}$ (with 1 MHz) $\geq 55 \text{ dB}$ (at 2 MHz) $\geq 50 \text{ dB}$ (at 4 MHz) $\geq 46 \text{ dB}$ (at 8 MHz) $\geq 44 \text{ dB}$ (at 10 MHz)	Minimum bending radius, flexible installation	15 x D
Conductor material Bare Cu litz wires  Insulation resistance $\geq 5 \text{ G}\Omega^*\text{km (Data)}$ $\geq 5 \text{ G}\Omega^*\text{km (Supply)}$ Loop resistance $\leq (\text{Data})$ Cable capacity $\leq 60 \text{ nF/km (At 800 Hz)}$ Wave impedance $110 \Omega \pm 20 \Omega (\text{at 64 kHz})$ Position of the properties of the proper	Outer sheath, material	PUR
$ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	Material conductor insulation	PE
$ \geq 5 \text{ G}\Omega^*\text{km (Supply)} $ $ \geq 60 \text{ nF/km (At 800 Hz)} $ $ \leq 60 \text{ nF/km (At 800 Hz)} $ $ \text{Wave impedance} $ $ 110 \Omega \pm 20 \Omega \text{ (at 64 kHz)} $ $ 95 \Omega \pm 15 \Omega \text{ (at >1 MHz)} $ $ \text{Near end crosstalk attenuation (NEXT)} $ $ \geq 61 \text{ dB (at 772 kHz)} $ $ \geq 59 \text{ dB (with 1 MHz)} $ $ \geq 55 \text{ dB (at 2 MHz)} $ $ \geq 50 \text{ dB (at 4 MHz)} $ $ \geq 46 \text{ dB (at 8 MHz)} $ $ \geq 44 \text{ dB (at 10 MHz)} $	Conductor material	Bare Cu litz wires
Loop resistance $≤ (Data)$ $≤ (Supply)$ Cable capacity $≤ 60 \text{ nF/km (At } 800 \text{ Hz)}$ Wave impedance $110 \Omega \pm 20 \Omega \text{ (at } 64 \text{ kHz)}$ $95 \Omega \pm 15 \Omega \text{ (at } > 1 \text{ MHz)}$ Near end crosstalk attenuation (NEXT) $≥ 61 \text{ dB (at } 772 \text{ kHz)}$ $≥ 59 \text{ dB (with } 1 \text{ MHz)}$ $≥ 55 \text{ dB (at } 2 \text{ MHz)}$ $≥ 50 \text{ dB (at } 4 \text{ MHz)}$ $≥ 46 \text{ dB (at } 8 \text{ MHz)}$ $≥ 44 \text{ dB (at } 10 \text{ MHz)}$	Insulation resistance	≥ 5 GΩ*km (Data)
$ \leq (Supply) $ Cable capacity $ \leq 60 \text{ nF/km (At 800 Hz)} $ Wave impedance $ 110 \Omega \pm 20 \Omega \text{ (at 64 kHz)} $ $ 95 \Omega \pm 15 \Omega \text{ (at >1 MHz)} $ Near end crosstalk attenuation (NEXT) $ \geq 61 \text{ dB (at 772 kHz)} $ $ \geq 59 \text{ dB (with 1 MHz)} $ $ \geq 55 \text{ dB (at 2 MHz)} $ $ \geq 50 \text{ dB (at 4 MHz)} $ $ \geq 46 \text{ dB (at 8 MHz)} $ $ \geq 44 \text{ dB (at 10 MHz)} $		$\geq$ 5 GΩ*km (Supply)
Cable capacity $\leq 60 \text{ nF/km (At 800 Hz)}$ Wave impedance $110 \Omega \pm 20 \Omega (\text{at 64 kHz})$ $95 \Omega \pm 15 \Omega (\text{at > 1 MHz})$ Near end crosstalk attenuation (NEXT) $\geq 61 \text{ dB (at 772 kHz)}$ $\geq 59 \text{ dB (with 1 MHz)}$ $\geq 55 \text{ dB (at 2 MHz)}$ $\geq 50 \text{ dB (at 4 MHz)}$ $\geq 46 \text{ dB (at 8 MHz)}$ $\geq 44 \text{ dB (at 10 MHz)}$	Loop resistance	≤ (Data)
Wave impedance $110\ \Omega\ \pm 20\ \Omega\ (at\ 64\ kHz)$ $95\ \Omega\ \pm 15\ \Omega\ (at\ >1\ MHz)$ Near end crosstalk attenuation (NEXT) $\geq 61\ dB\ (at\ 772\ kHz)$ $\geq 59\ dB\ (with\ 1\ MHz)$ $\geq 55\ dB\ (at\ 2\ MHz)$ $\geq 50\ dB\ (at\ 4\ MHz)$ $\geq 46\ dB\ (at\ 8\ MHz)$ $\geq 44\ dB\ (at\ 10\ MHz)$		≤ (Supply)
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)  ≥ 46 dB (at 8 MHz)  ≥ 44 dB (at 10 MHz)	Cable capacity	≤ 60 nF/km (At 800 Hz)
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)	Wave impedance	110 Ω ±20 Ω (at 64 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)		95 Ω ±15 Ω (at >1 MHz)
≥ 55 dB (at 2 MHz)  ≥ 50 dB (at 4 MHz)  ≥ 46 dB (at 8 MHz)  ≥ 44 dB (at 10 MHz)	Near end crosstalk attenuation (NEXT)	≥ 61 dB (at 772 kHz)
≥ 50 dB (at 4 MHz)  ≥ 46 dB (at 8 MHz)  ≥ 44 dB (at 10 MHz)		≥ 59 dB (with 1 MHz)
≥ 46 dB (at 8 MHz) ≥ 44 dB (at 10 MHz)		≥ 55 dB (at 2 MHz)
≥ 44 dB (at 10 MHz)		≥ 50 dB (at 4 MHz)
		≥ 46 dB (at 8 MHz)
> 41 dB (at 16 MHz)		≥ 44 dB (at 10 MHz)
[ = 11 dB (dt 10 MHZ)		≥ 41 dB (at 16 MHz)
≥ 40 dB (at 20 MHz)		≥ 40 dB (at 20 MHz)
Attenuation ≤ 10 dB/km (at 256 kHz)	Attenuation	≤ 10 dB/km (at 256 kHz)



#### Technical data

#### Cable

	≤ 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 <sub>rms</sub>	
est voltage Core/Shield 1000 V <sub>rms</sub>		
lame 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)	

#### **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 4.0	24010400
eCl@ss 4.1	24010400
eCl@ss 5.0	19030300
eCl@ss 5.1	19030300
eCl@ss 6.0	27061800
eCl@ss 7.0	27061801
eCl@ss 8.0	27061801
eCl@ss 9.0	27061801

#### **ETIM**

ETIM 2.0	EC000304
ETIM 3.0	EC000830
ETIM 4.0	EC002498
ETIM 5.0	EC000830
ETIM 6.0	EC000830
ETIM 7.0	EC003249



#### Classifications

#### **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 Approvals Approvals INTERBUS CLUB / EAC Ex Approvals

L	INTERBUS CLUB		115/27.05.97
	EAC	ERC	RU D- DE.HB35.B.00371

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Approval details