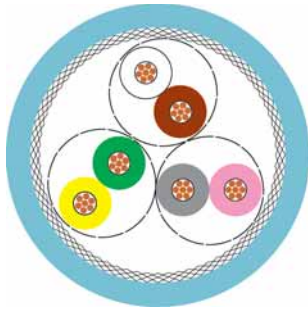


# BUS Cables

## I-BUS drag chain



PUR



### Type Cable structure

Inner conductor diameter:  
Inner conductor diameter 2:  
Core insulation:  
Core insulation 2:  
Core colours:  
Core colours 2:  
Stranding element:  
Separator:  
Shielding 1:  
Total shielding:  
Outer sheath material:  
Cable external diameter:  
Outer sheath colour:

### Drag chain applications 3x2x0.25 mm<sup>2</sup>

Copper, bare (AWG 24/19)  
-  
PE  
-  
wh/bn, gn/rd, ye/gn  
-  
Double core  
Polyester foil over stranded bundle  
-  
Cu braid, bare  
PUR  
app. 7,6 mm ± 0,3 mm  
Pastel turquoise similar to RAL 6034

### Drag chain applications 3x2x0.25 mm<sup>2</sup> + 3x1.0 mm<sup>2</sup>

Copper, bare (AWG 24/19)  
Copper, bare (AWG 17/56)  
PE  
PE  
wh/bn, gn/rd, ye/gn  
bu, rd, gnye  
Double core  
Polyester foil over stranded bundle  
-  
Cu braid, bare  
PUR  
app. 8,6 mm ± 0,3 mm  
Violet similar to RAL 4001

### Electrical data

Characteristic impedance:  
Conductor resistance, max.:  
Insulation resistance, min.:  
Loop resistance:  
Mutual capacitance:  
Test voltage:  
Attenuation:

100 Ohm ± 15 Ohm  
96 Ohm/km  
1 GOhm x km  
192 Ohm/km max.  
60 nF/km nom.  
1 kV  
256 kHz < 15,0 dB/km  
772 kHz < 24,0 dB/km  
1 MHz < 27,0 dB/km  
4 MHz < 52,0 dB/km  
10 MHz < 84,0 dB/km  
16 MHz < 112,0 dB/km  
20 MHz < 119,0 dB/km

100 Ohm ± 15 Ohm  
96 Ohm/km  
1 GOhm x km  
192 Ohm/km max.  
60 nF/km nom.  
1 kV  
256 kHz < 15,0 dB/km  
772 kHz < 24,0 dB/km  
1 MHz < 27,0 dB/km  
4 MHz < 52,0 dB/km  
10 MHz < 84,0 dB/km  
16 MHz < 112,0 dB/km  
20 MHz < 119,0 dB/km

### Technical data

Weight:  
bending radius, repeated:  
Operating temperature range min.:  
Operating temperature range max.:  
Caloric load, approx. value:  
Copper weight:

app. 63 kg/km  
120 mm  
-20°C  
+70°C  
0,937 MJ/m  
36,00 kg/km

app. 92 kg/km  
130 mm  
-20°C  
+70°C  
1,227 MJ/m  
70,00 kg/km

### Norms

Applicable standards:

interbus specification 2.0, IEC61158  
Halogen-free acc. to 60754-1  
Flame-retardant acc. IEC 60332-2-1

interbus specification 2.0, IEC61158  
Halogen-free acc. to 60754-1

### Application

HELUKABEL® I-Bus is designed for guided continuous motion in cable carriers and as strictly a bus cable or a hybrid version (with integrated power supply). Both versions feature a halogen-free PUR jacket.

### Part no.

**81203**, I-BUS

**82696**, I-BUS

Dimensions and specifications may be changed without prior notice.