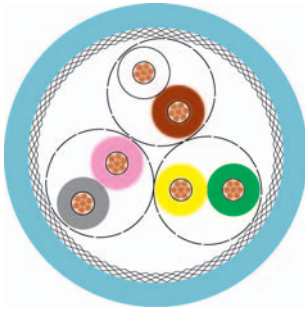


BUS Cables

I-BUS



fixed installed



Type Cable structure

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

Fixed installation, indoor 3x2x0.22 mm²

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

Fixed installation, indoor 3x2x0.22 mm² + 3x1.0 mm²

Copper, bare (AWG 24/7)
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
PVC
app. 8,0 mm ± 0,3 mm
Pastel turquoise similar to RAL 6034

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 < 1,5 dB/100m
772 kHz < 2,4 dB/100m
1 MHz < 2,7 dB/100m
4 MHz < 5,2 dB/100m
10 MHz < 8,4 dB/100m
16 MHz < 11,2 dB/100m
20 MHz < 11,9 dB/100m

100 Ohm ± 15 Ohm
96 Ohm/km
1 GOhm x km
192 Ohm/km max.
60 nF/km nom.
1 kV
256 kHz < 1,5 dB/100m
772 kHz < 2,4 dB/100m
1 MHz < 2,7 dB/100m
4 MHz < 5,2 dB/100m
10 MHz < 8,4 dB/100m
16 MHz < 11,2 dB/100m
20 MHz < 11,9 dB/100m

Technical data

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

app. 70 kg/km
110 mm
-40°C
+70°C
1,20 MJ/m
35,00 kg/km

app. 96 kg/km
120 mm
-40°C
+70°C
1,31 MJ/m
68,00 kg/km

Norms

Applicable standards:

interbus specification 2.0, IEC61158
Flame-retardant acc. to EN 50265-2-1
UL Style 2571

interbus specification 2.0, IEC61158
Flame-retardant acc. to EN 50265-2-1
UL Style 2571

Application

HELUKABEL® I-Bus is designed for fixed installation and occasional motion, for normal Interbus installation and as a hybrid cable with integrated power supply.

Part no.

80778, I-BUS

81202, I-BUS

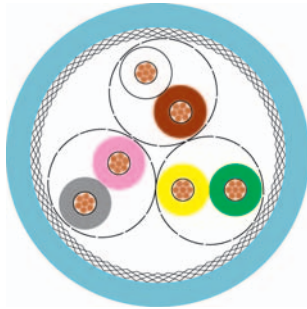
Dimensions and specifications may be changed without prior notice.

BUS Cables

I-BUS



fixed installed, halogenfree



Type Cable structure

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

Fixed installation, indoor 3x2x0.22 mm²

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

Electrical data

Characteristic impedance:	100 Ohm ± 15 Ohm
Conductor resistance, max.:	96 Ohm/km
Insulation resistance, min.:	1 GOhm x km
Loop resistance:	192 Ohm/km max.
Mutual capacitance:	50 nF/km nom.
Test voltage:	1 kV
Attenuation:	256 kHz < 1,5 dB/100m
	772 kHz < 2,4 dB/100m
	1 MHz < 2,7 dB/100m
	4 MHz < 5,2 dB/100m
	10 MHz < 8,4 dB/100m
	16 MHz < 11,2 dB/100m
	20 MHz < 11,9 dB/100m

Technical data

Weight:	app. 67 kg/km
bending radius, repeated:	110 mm
Operating temperature range min.:	-25°C
Operating temperature range max.:	+60°C
Caloric load, approx. value:	1,10 MJ/m
Copper weight:	35,00 kg/km

Norms

Applicable standards:	interbus specification 2.0, IEC61158 Halogen-free acc. to 60754-2
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Application

HELUKABEL® I-Bus is halogen-free and designed for fixed installation in buildings in an Interbus network. The cable is used in dry areas where its halogen-free construction is a major aspect.

Part no.

81557, I-BUS

Dimensions and specifications may be changed without prior notice.

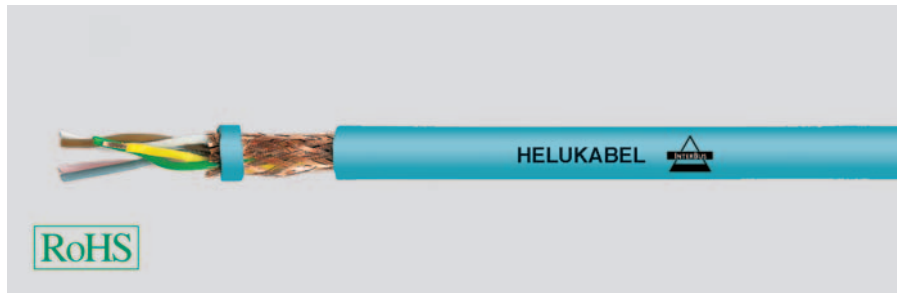
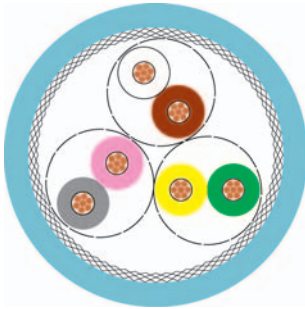
R

BUS Cables

I-BUS



Drag Chain



Type Cable structure

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

Drag chain applications 3x2x0.25 mm²

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 mm² + 3x1.0 mm²

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 < 1,5 dB/100m
772 kHz < 2,4 dB/100m
1 MHz < 2,7 dB/100m
4 MHz < 5,2 dB/100m
10 MHz < 8,4 dB/100m
16 MHz < 11,2 dB/100m
20 MHz < 11,9 dB/100m

100 Ohm ± 15 Ohm
96 Ohm/km
1 GOhm x km
192 Ohm/km max.
60 nF/km nom.
1 kV
256 kHz < 1,5 dB/100m
772 kHz < 2,4 dB/100m
1 MHz < 2,7 dB/100m
4 MHz < 5,2 dB/100m
10 MHz < 8,4 dB/100m
16 MHz < 11,2 dB/100m
20 MHz < 11,9 dB/100m

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 60754-2
Flame-retardant acc. to EN 50265-2-1

interbus specification 2.0, IEC61158
Halogen-free acc. to 60754-2

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 PU jacket.

Part no.

81203, I-BUS

82696, I-BUS

Dimensions and specifications may be changed without prior notice.