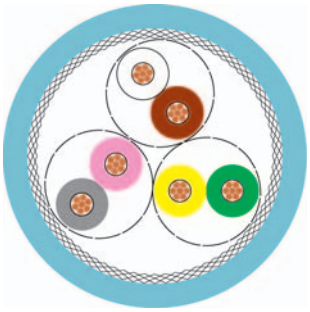
BUS Cables

I-BUS

HELUKABEL

Drag Chain



Type Cable structure	Drag chain applications 3x2x0.25 mm²	Drag chain applications 3x2x0.25 mm² + 3x1.0 mm²
Inner conductor diameter:	Copper, bare (AWG 24/19)	Copper, bare (AWG 24/19)
Inner conductor diameter 2:	-	Copper, bare (AWG 17/65)
Core insulation:	PE	PE
Core insulation 2:	-	PE
Core colours:	wh/bn, gn/rd, ye/gn	wh/bn, gn/rd, ye/gn
Core colours 2:	-	bu, rd, gnye
Stranding element:	Double core	Double core
Shielding 1:	Polyester foil over stranded bundle	Polyester foil over stranded bundle
Shielding 2:	-	-
Total shielding:	Cu braid, bare	Cu braid, tinned
Outer sheath material:	PUR	PUR
Cable external diameter:	approx. 7,6 mm ± 0,3 mm	approx. 8,6 mm ± 0,3 mm
Outer sheath colour:	Pastel turquoise similar to RAL 6034	Violet similar to RAL 4001

Electrical data

Characteristic impedance:	100 Ohm ± 15 Ohm				100 Ohm ± 15 Ohm	
Conductor resistance, max.:	96 Ohm/km				96 Ohm/km	
Insulation resistance, min.:	1 GOhm x km				1 GOhm x km	
Loop resistance:	192 Ohm/km max.				192 Ohm/km max.	
Mutual capacitance:	60 nF/km nom.				60 nF/km nom.	
Test voltage:	1 kV				1 kV	
Attenuation:	256	kHz	< 1,5	dB/100m	256	kHz < 3,0 dB/100m
	772	kHz	< 2,4	dB/100m	772	kHz < 4,8 dB/100m
	1	MHz	< 2,7	dB/100m	1	MHz < 5,2 dB/100m
	4	MHz	< 5,2	dB/100m	4	MHz < 10,4 dB/100m
	10	MHz	< 8,4	dB/100m	10	MHz < 16,8 dB/100m
	16	MHz	< 11,2	dB/100m	16	MHz < 22,4 dB/100m
	20	MHz	< 11,9	dB/100m	20	MHz < 23,8 dB/100m

Technical data

Weight:	approx. 63 kg/km	approx. 92 kg/km
bending radius, repeated:	120 mm	130 mm
Operating temperature range min.:	-20°C	-20°C
Operating temperature range max.:	+70°C	+70°C
Caloric load, approx. value:	0,937 MJ/m	1,227 MJ/m
Copper weight:	36,00 kg/km	70,00 kg/km

Norms

Applicable standards:	interbus specification 2.0, IEC61158	interbus specification 2.0, IEC61158

Application

Interbus-S is an inexpensive way to network sensors and actuators with all standard automation instruments. The twisted two-core conductor is used as a standard transfer medium. This bus system replaces the expensive parallel cabling for the different signal types in the lower levels of automation technique and combines the cables in a single bus cable. Interbus components are connected with this long-distance BUS cable. The above mentioned types are suitable for drag chain application.

Part no.

81203, I-BUS	**82696,** I-BUS

Dimensions and specifications may be changed without prior notice.