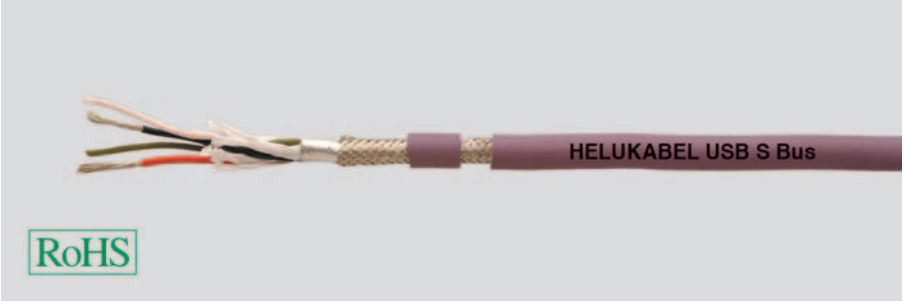
BUS Cables

USB Bus S

HELUKABEL

Drag Chain



Type

Drag chain applications

Cable structure

1x2xAWG28 + 1x2xAWG20

Inner conductor diameter 1:	Cu VAG + steel core (AWG 28/19)
Inner conductor diameter 2:	Copper, tinned (AWG 20/37)
Core insulation 1:	FEP
Core insulation 2:	PO
Core colours 1:	wh, gn
Core colours 2:	rd, bk
Stranding element 1:	2 cores + 2 fillers stranded together
Shielding 1:	Polyester foil over stranded bundle
Shielding 2:	-
Total shielding:	Foil + braid
Outer sheath material:	PUR
Cable external diameter:	approx. 5,0 mm ± 0,2 mm
Outer sheath colour:	Violet similar to RAL 4001

Electrical data

Characteristic impedance:	90 Ohm ± 15 %
Conductor resistance, max.:	232 Ohm/km
Insulation resistance, min.:	0,1 GOhm x km
Loop resistance:	464 Ohm/km max.
Mutual capacitance:	54 nF/km nom.
Test voltage:	0,5 kV

Typical values

Frequency	(MHz)	10	16	62,5	100	200	300	400
Attenuation	(db/100m)	12,1	15,4	31,0	39,7	60,2	76,2	99,7

Technical data

Weight:	approx. 45 kg/km
bending radius, repeated:	50 mm
Operating temperature range min.:	-20°C
Operating temperature range max.:	+60°C
Caloric load, approx. value:	0,49 MJ/m
Copper weight:	30,00 kg/km

Norms

Applicable standards:	USB-Standard 2.0
UL Style:	AWM 20963 (80°C/30V)
CSA standard:	CSA FT1

Application

These USB cables, designed specifically for use in heavy-duty industries, are the ideal solution for highly-flexible applications such as drag chains and camera technology. They guarantee superior transmission properties. The cable cited here can be used up to a maximum cable length of 5m.

Part no.

802469, USB S

Dimensions and specifications may be changed without prior notice.