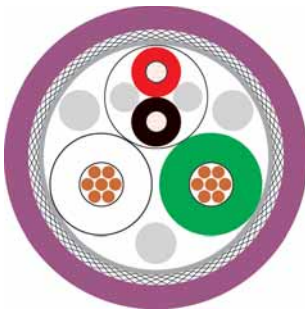


# BUS Cables

## USB Bus L 2.0 drag chain



PUR



### Type

#### Cable structure

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

### Drag chain applications

#### 1x2xAWG24 + 1x2xAWG20

Copper, tinned (AWG 24/19)  
Copper, tinned (AWG 20/19)  
PO  
PVC  
wh, gn  
rd, bk  
Double core  
-  
-  
AL-Foil + braid  
yes  
PUR  
app. 6,3 mm ± 0,2 mm  
Violet similar to RAL 4001

### Electrical data

Characteristic impedance: 90 Ohm ± 15 %  
Conductor resistance, max.: 36 Ohm/km  
Insulation resistance, min.: 0,2 GOhm x km  
Loop resistance: 71,6 Ohm/km max.  
Mutual capacitance: 50 nF/km nom.  
Nominal voltage: 300 V  
Test voltage: 2 kV

### Typical values

Frequency (MHz)	1	24	48	96	200	400
Attenuation (db/100m)	2,6	14,0	21,0	30,0	45,0	69,0

### Technical data

Weight: app. 56 kg/km  
bending radius, repeated: 95 mm  
Operating temperature range min.: -30°C  
Operating temperature range max.: +70°C  
Caloric load, approx. value: 0,57 MJ/m  
Copper weight: 40,00 kg/km

### Norms

Applicable standards: USB-Standard 2.0  
Flame-retardant acc. IEC 60332-2  
UL Style: AWM 21198 (80°C/ 300V)

### Application

HELUKABEL® USB BUS L is designed for continuous motion in cable carriers and lengths up to max. 10m without a repeater. Conventional USB cables fail within a short period of time and need a repeater after a cable length of 5m, which is why HELUKABEL developed this special cable with a larger cross-section. Thanks to the PUR sheath, it also offers excellent resistance to common mineral oils, greases and cooling lubricants.

### Part no.

**802470**, USB L

Dimensions and specifications may be changed without prior notice.