

BUS Cables

USB Bus 3.0 drag chain



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:
Outer sheath material:
Cable external diameter:
Outer sheath colour:

Drag chain applications

2x2xAWG28 + 2x(1x2xAWG28)

Copper, tinned (AWG 28/19)
Copper, tinned (AWG 28/19)
Foam-skin-PE
PE
bu/ye, or/vio
rd/bk, gn/gnwh
Double core
Polyester foil over stranded bundle
AL-Foil + braid
Cu braid, tinned
PUR
app. 6,5 mm ± 0,3 mm
Violet similar to RAL 4001

Electrical data

Characteristic impedance: 90 Ohm ± 20 %
105 Ohm ± 15% at 1 MHz
Conductor resistance, max.: 205 Ohm/km
Insulation resistance, min.: 2 GOhm x km
Loop resistance: 410 Ohm/km max.
Mutual capacitance: 60 nF/km nom.
Test voltage: 0,7 kV
Relative propagation velocity: 75 %

Typical values

Frequency (MHz)	1	625	1200
Attenuation UTP pair (dB/100m)	4,0	-	-
Attenuation S/FTP pair (dB/100m)	4,0	115,0	180,0

Technical data

Weight: app. 62 kg/km
bending radius, repeated: 55 mm
Operating temperature range min.: -30°C
Operating temperature range max.: +70°C
Caloric load, approx. value: 0,69 MJ/m
Copper weight: 42,00 kg/km

Norms

Applicable standards: USB-Standard 3.0
Halogen-free acc. to 60754-1
Flame-retardant acc. to IEC 60332-1-2
AWM Style 20236 AWM I/II A/B 80°C 30V FT1
CSA FT1
UL Style:
CSA standard:

Application

HELUKABEL® USB S 3.0, 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 transmission distance is connected with the transmission rate.

Part no.

805287, USB S

Dimensions and specifications may be changed without prior notice.