

BUS Cables

USB Bus 3.0 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:
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 \pm 0,3 mm
Violet similar to RAL 4001

Electrical data

Characteristic impedance:

Conductor resistance, max.:
Insulation resistance, min.:
Loop resistance:
Mutual capacitance:
Test voltage:
Relative propagation velocity:

90 Ohm \pm 20 %
105 Ohm \pm 15 % at 1 MHz
205 Ohm/km
2 GOhm x km
410 Ohm/km max.
60 nF/km nom.
0,7 kV
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:
bending radius, repeated:
Operating temperature range min.:
Operating temperature range max.:
Caloric load, approx. value:
Copper weight:

app. 62 kg/km
55 mm
-30°C
+70°C
0,69 MJ/m
42,00 kg/km

Norms

Applicable standards:

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

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.