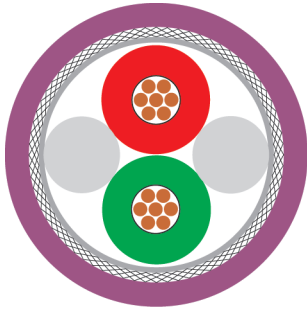


BUS Cables

Profibus L2 high flexible TORSION + FESTOON

 **HELUKABEL®**

PUR + PVC



Type

Cable structure

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

Torsional applications 1x2x0.80 mm (stranded)

Copper, bare (AWG 22/19)
Foam-skin-PE
rd, gn
2 cores + filler
Polyester foil over stranded bundle
Al-Foil
Cu braid, tinned
PUR
app. 8,0 mm ± 0,4 mm
Violet similar to RAL 4001

FESTOON

1x2x0.65 mm (stranded)

Copper, bare (AWG 23/19)
Cell PE
rd, gn
2 cores + 2 fillers stranded together
Polyester foil over stranded bundle
Al-Foil
Cu braid, tinned
PVC
app. 8,0 mm ± 0,3 mm
Petrol similar to RAL 5018

Electrical data

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

150 Ohm ± 10 %
57,6 Ohm/km
5 GOhm x km
115,2 Ohm/km max.
30 nF/km nom.
1,5 kV
-
9,6 kHz < 2,5 dB/km
38,4 kHz < 3,0 dB/km
4 MHz < 25,0 dB/km
16 MHz < 49,0 dB/km

150 Ohm ± 10 %
66,5 Ohm/km
1,6 GOhm x km
133 Ohm/km max.
28 nF/km nom.
2 kV
81 %
9,6 kHz ≤ 3,0 dB/km
38,4 kHz ≤ 4,0 dB/km
4 MHz ≤ 25,0 dB/km
16 MHz ≤ 49,0 dB/km

Technical data

Weight:
bending radius, repeated:
Operating temperature range min.:
Operating temperature range max.:
Caloric load, approx. value:
Copper weight:

app. 66 kg/km
120 mm
-30°C
+70°C
0,89 MJ/m
32,00 kg/km

app. 64 kg/km
70 mm
-40°C
+60°C
1,09 MJ/m
23,00 kg/km

Norms

Applicable standards:

Profibus acc. to DIN 19245 T3 and EN50170
Halogen-free acc. to 60754-1
Flame-retardant acc. to IEC 60332-1-2
CMX 75°C (shielded)

Profibus acc. to DIN 19245 T3 and EN50170
Flame-retardant acc. to IEC 60332-1-2

UL Style:

CMG 75°C FT4 or CL2 or AWM 21694 600V
SUN RES
CSA FT 4

CSA standard:

-

Application

HELUKABEL® Profibus Torsion is used in mobile applications in robots. The special torsion construction allows this cable to be twisted (torsioned) and is halogen-free thanks to use PU sheath. The Festoon version is used for hanging/moving loads in garland applications.

Part no.

800109, Profibus L2

800649, Profibus L2

Dimensions and specifications may be changed without prior notice.