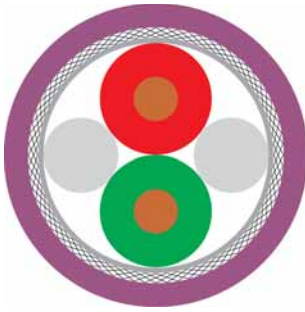


BUS Cables

Profibus fixed installed High Temperature +105°C or +200°C

HELUKABEL®

PVC + FRNC PH120



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:

Fixed installation, indoor

1x2x0.64 mm

Copper, bare (AWG 22/1)
Foam-skin-PE
rd, gn
2 cores + 2 fillers stranded together
Polyester foil over stranded bundle
Al-Foil
Cu braid, tinned
PVC
app. 7,8 mm ± 0,2 mm
Violet similar to RAL 4001

High temperature areas

1x2xAWG23/1

Copper, bare (AWG 23/1)
Rubber compound
rd, gn
2 cores + 2 fillers stranded together
-
-
AL-Foil + braid
FRNC
app. 8,3 mm ± 0,3 mm
Black similar to RAL 9005

Electrical data

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

150 Ohm ± 10 %
55 Ohm/km
5 GOhm x km
110 Ohm/km max.
30 nF/km nom.
1,5 kV
Frequency at +20°C
9,6 kHz < 3,0 dB/km
38,4 kHz < 5,0 dB/km
4 MHz < 22,0 dB/km
16 MHz < 42,0 dB/km

150 Ohm ± 10 %
74,5 Ohm/km
2 GOhm x km
149 Ohm/km max.
36 nF/km nom.
1,5 kV
Frequency at +20°C at +200°C
9,6 kHz < 3,0 dB/km < 8,0 dB/km
38,4 kHz < 5,0 dB/km < 12,0 dB/km
4 MHz < 22,0 dB/km < 41,0 dB/km
16 MHz < 42,0 dB/km < 90,0 dB/km

Technical data

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

app. 69 kg/km
120 mm
-40°C
+105°C
0,99 MJ/m
24,00 kg/km

app. 88 kg/km
130 mm
-50°C
+200°C
1,46 MJ/m
28,00 kg/km

Norms

Applicable standards:

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

Profibus acc. to DIN 19245 T3 and EN50170
Halogen-free acc. to 60754-1
Flame-retardant acc. to IEC 60332-1-2

Application

HELUKABEL® Profibus L2 105°C is for fixed installation indoor and enhanced temperature resistance.

The version Profibus L2 SR 200°C Fire Resistant has additional circuit integrity for 120 minutes (EN50200 PH120) and the temperature range up to +200°C for fix indoor installation.

Part no.

805705, Profibus high temperature

805706, Profibus high temperature with circuit integrity

Dimensions and specifications may be changed without prior notice.