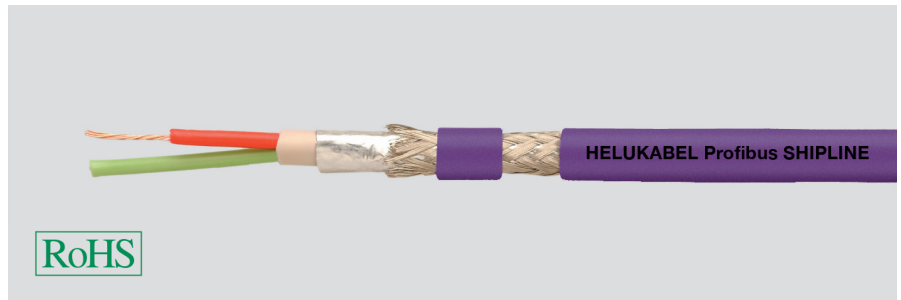
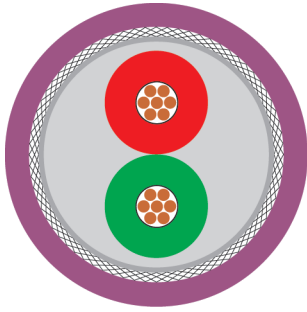


BUS Cables

Profibus fixed installed SHIPLINE + High Temperature 180°C

 **HELUKABEL®**

X-FRNC + FEP



Type Cable structure

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

Marine and Offshore 1x2x0.75 mm (stranded)

Copper, bare (AWG 22/7)
Foam-skin-PE
rd, gn
Double core
Polyester foil over stranded bundle
FRNC
Al-Foil
Cu braid, tinned
X-FRNC
app. 8,0 mm ± 0,4 mm
Violet similar to RAL 4001

High temperature areas 1x2x0.64 mm

Copper, bare (AWG 22/1)
FEP
rd, gn
2 cores + 2 fillers stranded together
-
-
Al-Foil
Cu braid, tinned
FEP
app. 7,2 mm ± 0,3 mm
Violet similar to RAL 4001

Electrical data

Characteristic impedance: 150 Ohm ± 10 %
Conductor resistance, max.: 55 Ohm/km
Insulation resistance, min.: 1,6 GOhm x km
Loop resistance: 110 Ohm/km max.
Mutual capacitance: 29 nF/km nom.
Nominal voltage: 60 V
Test voltage: 1 kV
Attenuation: 9,6 kHz < 2,5 dB/km
38,4 kHz < 4,0 dB/km
4 MHz < 22,0 dB/km
16 MHz < 42,0 dB/km

150 Ohm ± 10 %
55 Ohm/km
1,6 GOhm x km
110 Ohm/km max.
28 nF/km nom.
250 V
3,6 kV
9,6 kHz < 2,5 dB/km
38,4 kHz < 4,0 dB/km
4 MHz < 22,0 dB/km
16 MHz < 42,0 dB/km

Technical data

Weight: app. 84 kg/km
bending radius, repeated: 80 mm
Operating temperature range min.: -25°C
Operating temperature range max.: +80°C
Caloric load, approx. value: 1,26 MJ/m
Copper weight: 35,00 kg/km

app. 64 kg/km
52 mm
-50°C
+180°C
0,30 MJ/m
24,00 kg/km

Norms

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

Profibus acc. to DIN 19245 T3 and EN50170
Flame-retardant acc. to IEC 60332-3

Application

HELUKABEL® Profibus Shipline is designed for marine/offshore applications and **certified by German Lloyd**. Thanks to use of stranded conductors, this cable can be moved occasionally. The High-Temperature version is used in fixed installations with demanding temperature requirements, e.g. in the vicinity of a hot furnace or near welding activities.

Part no.

802178, Profibus SHIPLINE

802179, Profibus high temperature

Dimensions and specifications may be changed without prior notice.