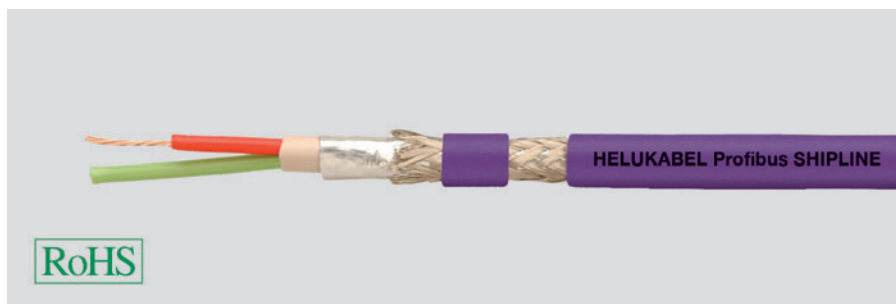
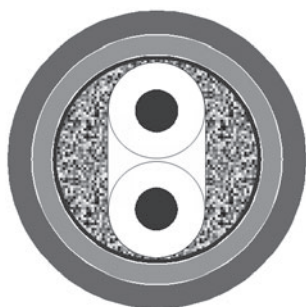


Bus Cables

Profibus

HELUKABEL®

SHIPLINE and High Temperature



Type

Cable structure

Inner conductor diameter:
Core insulation:
Core colours:
Stranding element:
Shielding 1:
Inner sheath material:
Shielding 2:
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
Polyester foil, aluminium-lined
Cu braid, tinned
X-FRNC
approx. 8,0 mm ± 0,4 mm
Violet similar to RAL 4001

High temperature areas

1x2x0.64 mm

Copper, bare (AWG 22/1)
XLPE ray cross-linking
rd, gn
2 cores + 2 fillers stranded together
-
Polyester foil, aluminium-lined
Cu braid, tinned
FEP
approx. 7,2 mm ± 0,3 mm
Violet similar to RAL 4001

Electrical data

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

150 Ohm ± 10 %
55 Ohm/km
1,6 GOhm x km
110 Ohm/km max.
29 nF/km nom.
60 V
1 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

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:
Min. bending radius for laying:
Operating temperature range min.:
Operating temperature range max.:
Caloric load, approx. value:
Copper weight:

approx. 84 kg/km
80 mm
-25°C
+80°C
1,26 MJ/m
35,00 kg/km

approx. 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

Profibus acc. to DIN 19245 T3 and EN50170

Application

The series SHIPLINE and HIGH TEMPERATURE are used to interconnect Profibus components. For the information exchange between different automation systems as well as for communication with the connected decentralized field units, serial field bus systems are used. The lines described here are designed for Marine and Offshore applications or the use in extreme temperature ranges.

Part no.

802178, Profibus SHIPLINE

802179, Profibus high temperature

Dimensions and specifications may be changed without prior notice.