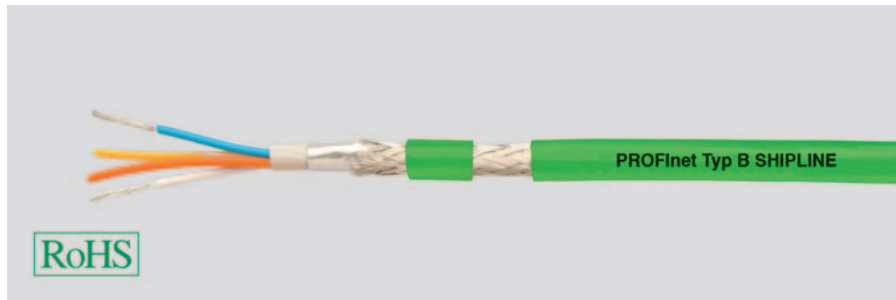
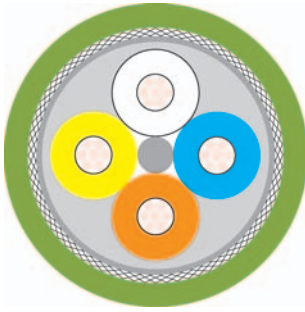


Industrial Ethernet

PROFInet Typ B

HELUKAT®

SHIPLINE + FESTOON



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 2x2x0,34 qmm (stranded)

Copper, tinned (AWG 22/7)
PP
wh, ye, bu, og
Star quad
Polyester foil over stranded bundle
FRNC
Polyester foil, aluminium-lined
Cu braid, tinned
FRNC
app. 6,5 mm ± 0,4 mm
Green similar to RAL 6018

FESTOON 2x2x0.75 mm (stranded)

Copper, tinned (AWG 22/7)
PE
wh, ye, bu, og
Star quad
Polyester foil over stranded bundle
PVC
Polyester foil, aluminium-lined
Cu braid, tinned
PVC
app. 6,5 mm ± 0,2 mm
Green similar to RAL 6018

Electrical data

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

100 Ohm ± 15 ohm at 1 to 100 MHz
60 Ohm/km
0,5 GOhm x km
120 Ohm/km max.
52 nF/km nom.
2 kV

100 Ohm ± 5 %
60 Ohm/km
0,5 GOhm x km
120 Ohm/km max.
52 nF/km nom.
2 kV

Typical values

		10	16	62,5	100
Frequency (MHz)		10	16	62,5	100
Attenuation (dB/100m)		6,0	7,6	16,0	21,0
Next (db)		70,0	65,0	55,0	50,0
ACR (db)		64,0	57,4	39,0	29,0

Technical data

Weight: app. 68 kg/km
bending radius, repeated: 50 mm
Operating temperature range min.: -40°C
Operating temperature range max.: +70°C
Caloric load, approx. value: 0,45 MJ/m
Copper weight: 32,00 kg/km

app. 68 kg/km
70 mm
-10°C
+80°C
1,20 MJ/m
32,00 kg/km

Norms

Applicable standards:

PROFInet Guideline
Acc. to ISO/IEC 11801
Acc. to EN 50173
Category 5e
Halogen-free acc. to 60754-2
Flame-retardant acc. to IEC 60332-3
Corrosiveness acc. to EN50267-2-3
Low-smoke acc. to EN50268-2
CMG 75°C PLTC FT4
CSA FT 4

PROFInet Guideline
Acc. to ISO/IEC 11801
Acc. to EN 50173
Category 5e
Flame-retardant acc. to IEC 60332-3

UL Style:
CSA standard:

CMG 75°C or PLTC or AWM 21694 600V
CSA FT 4

Application

HELUKAT® PROFInet Type B Cat 5e SHIPLINE + FESTOON designed specially for marine/offshore applications as well as FESTOON applications. The SHIPLINE version is certified by the **Germanische Lloyd** and suitable for flexible **marine and offshore applications**.

Part no.

802185, PROFInet type B (SK)

803295, PROFInet type B (SK)

Dimensions and specifications may be changed without prior notice.