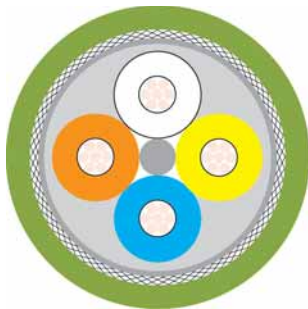


Industrial Ethernet

PROFINet Typ B SHIPLINE * FESTOON

HELUKAT®

FRNC + PVC



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 2x2x0,75 mm (stranded)

Copper, tinned (AWG 22/7)
PP
wh, ye, bu, og
Star quad
Polyester foil over stranded bundle
FRNC
Al-Foil
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
Al-Foil
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.
0,7 kV

100 Ohm ± 15 %
60 Ohm/km
0,5 GOhm x km
120 Ohm/km max.
52 nF/km nom.
2 kV

Typical values

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

app. 64 kg/km
50 mm
-40°C
+75°C
0,45 MJ/m
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 + IEC 61158-2
Acc. to ISO/IEC 11801
Acc. to EN 50173
Category 5e
Halogen-free acc. to 60754-1
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 + IEC 61158-2
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 Category 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.

Ideal accessory:

RJ45 copper connector
805401 + 805402
chapter 4, page 294

