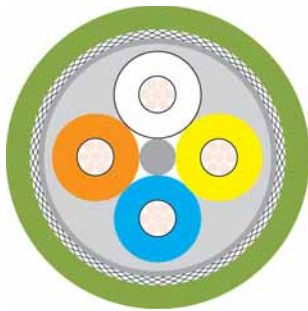


# Industrial Ethernet

## PROFINet Type B flexible



PVC + FRNC



### 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:

### Mobile use 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

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### Electrical data

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

100 Ohm ± 15 Ohm at 1 to 100 MHz  
57,5 Ohm/km  
0,5 GOhm x km  
115 Ohm/km max.  
48 nF/km nom.  
2 kV  
65 %

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  
-

### Typical values

Frequency (MHz)	10	16	62,5	100
Attenuation (dB/100m)	6,3	8,0	16,5	21,3
Next (db)	70,0	65,0	55,0	50,0
ACR (db)	64,0	57,4	39,0	29,0

### Technical data

Weight: app. 67 kg/km  
bending radius, repeated: 100 mm  
Operating temperature range min.: -40°C  
Operating temperature range max.: +80°C  
Caloric load, approx. value: 0,32 MJ/m  
Copper weight: 32,00 kg/km

app. 65 kg/km  
100 mm  
-25°C  
+75°C  
0,32 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  
Flame-retardant acc. to IEC 60332-3

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Acc. to ISO/IEC 11801  
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Category 5e

UL Style:

CSA standard:

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

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 or PLTC or AWM 21279 600V  
CSA FT 4

### Application

HELUKAT® PROFINet Type B (flexible) Cat.5e for use on moving parts. The cables listed here correspond to the PROFINet classifications Type B for moving cables and are designed to withstand mechanical loads. The version PVC is the standard cable; the FRNC version is used for halogen free requirements.

### Part no.

**800654**, PROFINet type B (SK)

**805654**, PROFINet type B (SK)

Dimensions and specifications may be changed without prior notice.

#### Ideal accessory:

RJ45 copper connector  
805401 + 805402  
chapter 4, page 294

